AGENDA

CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY OF THE CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
BOARD OF LIBRARY TRUSTEES

April 18, 2023

REGULAR MEETING – 6:00 PM

City Council Study Sessions
Second Tuesday of each month – 6:00 p.m.

City Council Meetings
Special Presentations – 5:30 P.M.
First & Third Tuesday of each month – 6:00 p.m.

City Council Closed Sessions
Will be scheduled as needed at 4:30 p.m.

City Hall Council Chamber – 14177 Frederick Street

Upon request, this agenda will be made available in appropriate alternative formats to persons with disabilities, in compliance with the Americans with Disabilities Act of 1990. Any person with a disability who requires a modification or accommodation in order to participate in a meeting should direct such request to the ADA Coordinator, at 951.413.3350 at least 72 hours before the meeting. The 72-hour notification will enable the City to make reasonable arrangements to ensure accessibility to this meeting.

Ulises Cabrera, Mayor

Edward A. Delgado, Mayor Pro Tem

David Marquez, Council Member

Cheylynda Barnard, Council Member

Elena Baca-Santa Cruz, Council Member

AGENDA
CITY COUNCIL OF THE CITY OF MORENO VALLEY
April 18, 2023

CALL TO ORDER - 5:30 PM

SPECIAL PRESENTATIONS

1. RECOGNITION OF THE 2022 BEAUTIFY MOVAL LEVEL 3 ADOPTERS
2. ARBOR DAY PROCLAMATION
3. FIREFIGHTER OF THE YEAR

AGENDA
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
AND THE BOARD OF LIBRARY TRUSTEES

THE CITY COUNCIL RECEIVES A SEPARATE STIPEND FOR CSD MEETINGS

REGULAR MEETING – 6:00 PM
APRIL 18, 2023

CALL TO ORDER

Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority and the Board of Library Trustees - actions taken at the Joint Meeting are those of the Agency indicated on each Agenda item.

PLEDGE OF ALLEGIANCE

INVOCATON

FATHER ROMEO SELECCION, ST. CHRISTOPHER PARISH

ROLL CALL

INTRODUCTIONS

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

PUBLIC COMMENTS ON ANY SUBJECT ON THE AGENDA

CITY COUNCIL OPENING COMMENTS

JOINT CONSENT CALENDARS (SECTIONS A-E)

All items listed under the Consent Calendars, Sections A, B, C, D, and E are considered to be routine and non-controversial, and may be enacted by one motion unless a member of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency, Housing Authority or the Board of Library Trustees requests that an item be removed for separate action. The motion to adopt the Consent Calendars is deemed to be a separate motion by each Agency and shall be so recorded by the City Clerk. Items withdrawn for report or discussion will be heard after public hearing items.

A. CONSENT CALENDAR-CITY COUNCIL

A.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

A.2. MINUTES - CITY COUNCIL - REGULAR MEETING - APR 4, 2023 6:00 PM

Recommendation:

1. Approve as submitted.

A.3. COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR 2022/2023 FROM JULY 1, 2022 THROUGH March, 31, 2023. (Report of: City Clerk)

Recommendation:

1. Receive and file the Fiscal Year 2022/2023 Council Discretionary Expenditure Report for July 1, 2022, through March 31, 2023.

A.4. PAYMENT REGISTER - FEBRUARY 2023 (Report of: Financial & Management Services)

Recommendation:

1. Receive and file the Payment Register.

A.5. LIST OF PERSONNEL CHANGES (Report of: Financial & Management Services)

Recommendation:

1. Ratify the list of personnel changes as described.

A.6. APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS AND THE CITY OF MORENO VALLEY TO PARTICIPATE IN THE WESTERN RIVERSIDE REGIONAL FOOD RECOVERY PROGRAM (Report of: Financial & Management Services)

Recommendations:

1. Approve the City of Moreno Valley entering into a 3-year agreement with Western Riverside Council of Governments (WRCOG) for the City of Moreno Valley to participate in the Western Riverside Regional Food Recovery Program for $117,329 for FY2022/23.

2. Authorize the City Manager or designee to execute the Memorandum of Agreement (MOA) and any subsequent related extensions or amendments with the Western Riverside Council of Governments (WRCOG) subject to the approval of the City Attorney.

3. Authorize the Chief Financial Officer to appropriate budget as set forth in the Fiscal Impact section of this report.

A.7. APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE A THERMO SCIENTIFIC UNLIMITED HAND-HELD NARCOTICS ANALYZER IN FY 2022/23 (Report of: Police Department)

Recommendations:

1. Authorize the Police Department to purchase one new Thermal Scientific-TruNarc Unlimited Handheld Narcotics Analyzer (TruNarc), at a cost of $29,160.38 ($27,063.00 for the equipment and warranty, plus $2,097.38 sales tax).

2. Authorize a budget adjustment as set forth in the Fiscal Impact section of this report.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

B.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

B.2. MINUTES - CITY COUNCIL - REGULAR MEETING - APRIL 4, 2023.

Recommendation:

1. Approve as submitted.

B.3. PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) - AMENDMENT NOS. 78, 81 and 86-89 (RESO. NOS. CSD 2023- __ TO CSD 2023-__) (Report of: Financial & Management Services)

Recommendation:

1. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 78) (Abdon Sepulveda, 13400 Birchwood Dr.).

2. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 81) (Pedro A. Rivera Hernandez, Esther Burgos Rivera, 25663 Dracaea Ave.).

3. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 86) (Raul Romero, 22060 Monico Dr.).

4. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 87) (Dale Kimbriel, 14361 Anthony Pl.).

5. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 88) (Juan Ramon and Bertha Maldonado, 25035 Quebrada Ct.).

6. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 89) (11 Fir Park Apartment Homes, located on the northside of Fir Ave., east of Indian St.).

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

C.2. MINUTES - CITY COUNCIL - REGULAR MEETING - APRIL 4, 2023..

Recommendation:

1. Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

D.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

D.2. MINUTES - CITY COUNCIL - REGULAR MEETING - APRIL 4, 2023..

Recommendation:

1. Approve as submitted.

E. CONSENT CALENDAR - PUBLIC FINANCING AUTHORITY

E.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

E.2. MINUTES - CITY COUNCIL - REGULAR MEETING - APRIL 4, 2023.

Recommendation:

1. Approve as submitted.

F. PUBLIC HEARINGS

Questions or comments from the public on a Public Hearing matter are limited to five minutes per individual and must pertain to the subject under consideration.

Those wishing to speak should complete and submit a GOLDENROD speaker slip to the Sergeant-at-Arms.

F.1. PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT PERIOD FOR THE FIVE-YEAR CONSOLIDATED PLAN FOR PROGRAM YEARS 2023/2028 AND FOR THE CDBG, HOME & ESG PROJECT SELECTIONS FOR INCLUSION IN FISCAL YEAR 2023/24 ANNUAL ACTION PLAN (Report of: Financial & Management Services)

Recommendation:

1. Conduct a Public Hearing to review and begin the 30-day public comment period for the five-year Consolidated Plan for program years 2023/2028 and for the Community Development Block Grant (CDBG), HOME Investment Partnerships Program (HOME) and Emergency Solutions Grants Program (ESG) programs to allow the public an opportunity to comment on the proposed project selections for Fiscal Year (FY) 2023/24 Annual Action Plan.

F.2. MORENO VALLEY TRADE CENTER (Report of: Community Development)

Recommendation:

That the City Council take the following actions:

1. Adopt Resolution No. [next in order] approving and adopting the Mitigation, Monitoring and Reporting Program and Statement of Overriding Considerations and Certifying the Final Environmental Impact Report for the Moreno Valley Trade Center Project;

2. Adopt Resolution No. [next in order] approving General Plan Amendment (PEN19-0191), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) and the respective conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

3. Introduce Ordinance No. [next in order] approving Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas and the conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

4. Adopt Resolution No. [next in order] finding and determining pursuant to Senate Bill No. 330 that approval of the Moreno Valley Trade Center project shall not result in a net loss in residential capacity; and,

5. Adopt Resolution No. [next in order] accepting the Community Benefits and Community Park on behalf of the City of Moreno Valley, as offered by the Applicant and set forth in the Community Park Acquisition and Improvement Agreement and authorize the City Manager to execute the Agreement and approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

G. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

H. GENERAL BUSINESS - NONE

I. REPORTS

I.1. CITY COUNCIL REPORTS

(Informational Oral Presentation - not for Council action)

March Joint Powers Commission (JPC)

Riverside County Habitat Conservation Agency (RCHCA)

Riverside County Transportation Commission (RCTC)

Riverside Transit Agency (RTA)

Western Riverside Council of Governments (WRCOG)

Western Riverside County Regional Conservation Authority (RCA)

School District/City Joint Task Force

I.2. EMPLOYEE ASSOCIATION REPORTS

I.3. CITY MANAGER'S REPORT

(Informational Oral Presentation - not for Council action)

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY, HOUSING AUTHORITY, PUBLIC FINANCING AUTHORITY, AND THE BOARD OF LIBRARY TRUSTEES.

ADJOURNMENT

PUBLIC INSPECTION

The contents of the agenda packet are available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

Any written information related to an open session agenda item that is known by the City to have been distributed to all or a majority of the City Council less than 72 hours prior to this meeting will be made available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

CERTIFICATION

I, Jane Halstead, City Clerk of the City of Moreno Valley, California, certify that 72 hours prior to this Regular Meeting, the City Council Agenda was posted on the City's website at: www.moval.org and in the following three public places pursuant to City of Moreno Valley Resolution No. 2007-40:

City Hall, City of Moreno Valley
14177 Frederick Street

Moreno Valley Library
25480 Alessandro Boulevard

Moreno Valley Senior/Community Center
25075 Fir Avenue

Jane Halstead, CMC
City Clerk

Date Posted: April 13, 2023

MINUTES
CITY COUNCIL REGULAR MEETING OF THE CITY OF MORENO VALLEY
April 4, 2023

CALL TO ORDER - 5:30 PM

SPECIAL PRESENTATIONS

1. Commendation of Battalion Chief Dave Rodriguez

2. Proclamation Recognizing April as National Child Abuse Prevention Month

3. Proclamation Recognizing April as Autism Awareness Month

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

MINUTES
JOINT MEETING OF THE
CITY COUNCIL OF THE CITY OF MORENO VALLEY
MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY AS SUCCESSOR AGENCY FOR THE
COMMUNITY REDEVELOPMENT AGENCY OF THE
CITY OF MORENO VALLEY
MORENO VALLEY HOUSING AUTHORITY
MORENO VALLEY PUBLIC FINANCING AUTHORITY
BOARD OF LIBRARY TRUSTEES

REGULAR MEETING – 6:00 PM
April 4, 2023

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

CALL TO ORDER

The Joint Meeting of the City Council, Community Services District, City as Successor Agency for the Community Redevelopment Agency of the City of Moreno Valley, Moreno Valley Housing Authority, Moreno Valley Public Financing Authority and the Board of Library Trustees was called to order at 6:01 p.m. by Mayor Cabrera in the Council Chamber located at 14177 Frederick Street.

Mayor Cabrera announced that the City Council receives a separate stipend for CSD meetings.

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Mayor Pro Tem Delgado.

INVOCATION

The invocation was given by Bishop LaTerra Ruffin from Life Empowerment Church.

ROLL CALL

Council:	Ulises Cabrera	Mayor
	Edward A. Delgado	Mayor Pro Tem
	Elena Baca-Santa Cruz	Council Member
	David Marquez	Council Member
	Cheylynda Barnard	Council Member

INTRODUCTIONS

Staff:	Jane Halstead	Manager of the Office of the Mayor and City Council/City Clerk
	Paul Bradvica	Deputy City Clerk
	Patty Rodriguez	Senior Deputy City Clerk
	Steven Quintanilla	Interim City Attorney
	Mike Lee	City Manager
	Brian Mohan	Assistant City Manager, Chief Financial Officer, City Treasurer
	Michael Lloyd	Assistant City Manager
	Manuel Mancha	Community Development Director
	Melissa Walker	Public Works Director/City Engineer
	Donna Meester	Parks and Community Services Deputy Director
	Ken Reichle	Chief of Police
	Jesse Park	Fire Chief

PUBLIC COMMENTS ON ANY SUBJECT NOT ON THE AGENDA UNDER THE JURISDICTION OF THE CITY COUNCIL

Daryl Terrell

1. Proposed Catalytic Converter Ordinance.

Sean Fortine

1. Public Safety.

Donovan Saadiq

1. Thanked City Staff.
2. Military Committee proposal.

Tom Jerele Sr.

1. Public Safety.

Russel Shafer

1. Critical of Mayor Cabrera.

Bob Palomarez

1. Public Safety.

Pete

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

1. City history.

Louise Palomarez

1. Critical of Mayor Cabrera.

Christopher Baca

1. Public Safety.

Roy Bleckert

1. Critical of Mayor Cabrera.

PUBLIC COMMENTS ON ANY SUBJECT ON THE AGENDA

Mayor Cabrera asked if any members of Council would like to remove any items on the Consent Calendar for separate action.

Council Member Marquez commented on item A.9

Donovan Saadiq (A.5, B.4)

1. Critical of Mayor Cabrera.

Daryl Terrell (B.4)

1. City resources.

Russell Shafer (A.6)

1. Critical of Mayor Cabrera.

Roy Bleckert (A.1-4, A.5, A.8, A.9, A.11, B.4)

1. Senior Center Renovation.

Bob Palomarez (A.6)

1. Critical of Mayor Cabrera.

Tom Jerele Sr. (A.9)

1. Senior Center Renovation.

Louise Palomarez (A.6)

1. Critical of Mayor Cabrera.

CITY COUNCIL OPENING COMMENTS

None.

JOINT CONSENT CALENDARS (SECTIONS A-E)

Mayor Cabrera responded to public comments regarding required training.

Mayor Cabrera called for a motion to approve the consent calendar.

Motion made by Mayor Pro Tem Delgado and seconded by Council Member Marquez to approve the consent calendar.

Motion passed by a vote of 5-0, with Council Member Baca-Santa Cruz, Council Member Marquez, Council Member Barnard, Mayor Pro Tem Delgado, and Mayor Cabrera voting yes.

RESULT:	**APPROVED [UNANIMOUS]**
MOVER:	Ed Delgado, Mayor Pro Tem
SECONDER:	David Marquez, Council Member
AYES:	Cabrera, Delgado, Marquez, Barnard, Baca-Santa Cruz

A. CONSENT CALENDAR-CITY COUNCIL

A.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

A.2. City Council - Study Session - Mar 14, 2023 6:00 PM

Recommendation:

1. Approve as submitted.

A.3. City Council - Closed Session - Mar 21, 2023 4:30 PM

Recommendation:

1. Approve as submitted.

A.4. City Council - Regular Meeting - Mar 21, 2023 6:00 PM

Recommendation:

1. Approve as submitted.

A.5. SECOND READING OF ORDINANCE NO. 996 REGARDING MAYOR'S ROLE, DUTIES AND RESPONSIBILITIES (Report of: City Attorney)

Recommendation:

1. Adopt Ordinance No. 996 amending Moreno Valley Municipal Code Section 2.04.007 regarding the Mayor's Role, Duties and Responsibilities, that was introduced on March 21, 2023, by a unanimous vote of the City Council.

A.6. APPOINT A VOTING DELEGATE AND ALTERNATE DELEGATE TO THE SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS (SCAG) 2023 ANNUAL GENERAL ASSEMBLY (Mayor Ulises Cabrera -Delegate, Mayor Pro Tem Edward Delgado- Alternate) (Report of: City Clerk)

Recommendations:

That the City Council:

1. Appoint a Delegate, Mayor Ulises Cabrera, and an Alternate, Mayor Pro Tem Edward Delgado, to the Southern California Association of Governments (SCAG) Annual General Assembly on May 4, 2023.

2. Direct staff to submit the names to SCAG.

A.7. ACCEPT THE CALIFORNIA AUTOMATED PERMIT PROCESSING PROGRAM FUNDING GRANT AWARD (Report of: Community Development)

Recommendations:

1. Accept the California Automated Permit Processing Program (CalAPP) funding grant award of $100,000 administered through the California Energy Commission, to fund the implementation of SolarAPP+ and comply with the provisions of SB 379;

2. Authorize the City Manager, or his designee, to execute for and on behalf of the City of Moreno Valley, agreements and other related documents required by the California Energy Commission, subject to the approval of the City Attorney; and

3. Authorize the Chief Financial Officer, or his designee, to make any necessary budget adjustments as recommended in the Fiscal Impact section of this report.

A.8. UC RIVERSIDE-CITY ENTREPRENEURSHIP PROGRAM MEMORANDUM OF UNDERSTANDING (Report of: Economic Development)

Recommendations:

1. Approve the Memorandum of Understanding (MOU) between the City of Moreno Valley and the Regents of the University of California, on behalf of its Riverside Campus (UCR) for entrepreneur and business technical assistance offered through the Moreno Valley Business and Employment Resource Center (BERC).

2. Authorize staff to execute the MOU as to form all necessary documents with UCR.

A.9. AUTHORIZATION TO AWARD AN AGREEMENT FOR PROFESSIONAL CONSULTANT ARCHITECTURAL AND ENGINEERING DESIGN SERVICES TO SVA ARCHITECTS, INC. FOR THE MORENO VALLEY SENIOR CENTER EXPANSION PROJECT NO. 803 0057 (Report of: Public Works)

Recommendations:

1. Award an Agreement for Professional Consultant Services to SVA Architects, Inc. to provide architectural and engineering design services for the Moreno Valley Senior Center Expansion project in the amount of $399,078.00;

2. Authorize the City Manager to execute the agreement with SVA Architects, Inc.;

3. Authorize the issuance of a Purchase Order to SVA Architects, Inc. in the amount of $399,078.00 when the agreement has been signed by all parties using the approved Facility Construction funds (Fund 3000); and

4. Authorize the City Manager to execute any subsequent Amendments to the Agreement with SVA Architects, Inc. within Council approved annual budgeted amounts, including the authority to authorize the associated purchase orders in accordance with the terms of the Agreement, subject to the approval of the City Attorney.

A.10. ROAD CLOSURE FOR SOUTHERN CALIFORNIA AIR SHOW (Report of: Public Works)

Recommendation:

1. Authorize the road closure of the following streets between the hours of 6:00 a.m. and 8:00 p.m. on April 22 and 23, 2023 for the purpose of controlling traffic for the Southern California Air Show at March Field:

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

a. Elsworth Street between Alessandro Boulevard and Cactus Avenue
b. Veterans Way between Alessandro Boulevard and Cactus Avenue
c. Frederick Street between Alessandro Boulevard and Cactus Avenue

A.11. APPROVE ANNUAL MEASURE A (RCTC) LOCAL STREETS AND ROADS FIVE-YEAR CAPITAL IMPROVEMENT PLAN FOR FY 2023/24-2027/28 (Report of: Public Works)

Recommendations:

1. Approve and authorize submittal of the City of Moreno Valley's annual Measure A (RCTC) Local Streets and Roads Five-Year Capital Improvement Plan for Fiscal Years 2023/24 – 2027/28 and Maintenance of Effort Certification for Fiscal Year 2023/24 to the Riverside County Transportation Commission; and

2. Authorize the Director of Public Works/City Engineer to submit an annual amended five-year plan to the Riverside County Transportation Commission if changes are made to the listed Measure A (RCTC) projects.

B. CONSENT CALENDAR-COMMUNITY SERVICES DISTRICT

B.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

B.2. MINUTES - CITY COUNCIL - CLOSED SESSION MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

B.3. MINUTES - CITY COUNCIL - REGULAR CITY COUNCIL MEETING MARCH 21, 2023

Recommendation:

1. Approve as submitted.

B.4. APPROVE AGREEMENT WITH ARCHITERRA DESIGN GROUP FOR ARCHITECTURAL AND ENGINEERING DESIGN SERVICES FOR THE INSTALLATION OF RESTROOMS AT THE MORENO VALLEY

AMPHITHEATER PARK AND ADRIENNE MITCHELL MEMORIAL PARK, PROJECT NO. 807 0060 (Report of: Parks & Community Services)

Recommendations: That the City Council and CSD:

1. Award an Agreement for Professional Consultant Services with Architerra Design Group, Inc., for architectural and engineering design services for the installation of restrooms at the Moreno Valley Amphitheater Park and Adrienne Mitchell Memorial Park;

2. Authorize the City Manager to execute the contract with Architerra Design Group, Inc.;

3. Authorize the issuance of a purchase order in the amount of $149,625 upon execution of the Agreement for Professional Consultant Services with Architerra Design Group, Inc. Funds are available in the Park Rehabilitation and Refurbishment Program (Fund 5011); and

4. Authorize the Parks and Community Services Director to execute subsequent Amendments to the Agreement with Architerra Design Group, Inc. within Council approved annual budgeted amounts, including the authority to authorize the associated purchase orders in accordance with the terms of the Agreement, subject to the approval of the City Attorney.

C. CONSENT CALENDAR - HOUSING AUTHORITY

C.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

C.2. MINUTES - CITY COUNCIL - REGULAR MEETING - CLOSED SESSION MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

C.3. MINUTES - CITY COUNCIL - REGULAR CITY COUNCIL MEETING MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

D. CONSENT CALENDAR - BOARD OF LIBRARY TRUSTEES

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

D.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

D.2. MINUTES - CITY COUNCIL - CLOSED SESSION MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

D.3. MINUTES - CITY COUNCIL - REGULAR CITY COUNCIL MEETING MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

E. CONSENT CALENDAR - PUBLIC FINANCING AUTHORITY

E.1. ORDINANCES - READING BY TITLE ONLY - THE MOTION TO ADOPT AN ORDINANCE LISTED ON THE CONSENT CALENDAR INCLUDES WAIVER OF FULL READING OF THE ORDINANCE.

Recommendation: Waive reading of all Ordinances.

E.2. MINUTES - CITY COUNCIL - - CLOSED SESSION MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

E.3. MINUTES - CITY COUNCIL - REGULAR CITY COUNCIL MEETING MARCH 21, 2023.

Recommendation:

1. Approve as submitted.

F. PUBLIC HEARINGS

None.

G. ITEMS REMOVED FROM CONSENT CALENDARS FOR DISCUSSION OR SEPARATE ACTION

None.

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

H. GENERAL BUSINESS

H.1. PROCESS OF THE SELECTION OF THE MAYOR PRO TEM (Report of: City Clerk)

Recommendation:

1. That the City Council consider the "Equal Opportunity" option for selecting the Mayor Pro Tem which provides that the Council Member who has not served as Mayor Pro Tem for the longest period of time be appointed as Mayor Pro Tem.

City Clerk Jane Halstead provided the staff report.

With no Council questions of staff, Mayor Cabrera called for public comments to be heard.

Public comments were heard.

Sean Fortine

1. Oppose.

Donovan Saadiq

1. Oppose.

Russell Shafer

1. Oppose.

Tom Jerele Sr.

1. History.

Bob Palomarez

1. Oppose.

Louise Palomarez

1. Oppose.

Christopher Baca

1. Oppose.

Roy Bleckert

1. Oppose.

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

After deliberation from the City Council, a motion was made by Council Member Baca-Santa Cruz to keep the current Mayor Pro Tem selection process.

Motion made by Council Member Baca-Santa Cruz and seconded by Mayor Pro Tem Delgado to keep the current Mayor Pro Tem selction process.

Motion passed by a vote of 3-1, with Council Member Baca-Santa Cruz, Council Member Barnard, and Mayor Pro Tem Delgado voting yes, Mayor Cabrera voting no, and Council Member Marquez abstaining.

Mayor Cabrera and City Clerk Jane Halstead clarified the vote taken was for Item H.1.

RESULT:	**APPROVED [3 TO 1]**
MOVER:	Elena Baca-Santa Cruz, Council Member
SECONDER:	Ed Delgado, Mayor Pro Tem
AYES:	Ed Delgado, Cheylynda Barnard, Elena Baca-Santa Cruz
NAYS:	Ulises Cabrera
ABSTAIN:	David Marquez

H.2. RESOLUTION OPPOSING ASSEMBLY BILL 742 BANNING THE USE OF LAW ENFORCEMENT K-9'S FOR ARRESTS AND APPREHENSIONS (Report of: City Attorney)

Recommendation:

1. Adopt Resolution No. 2023-18 opposing Assembly Bill 742 banning the use of Law Enforcement K-9s for arrests and apprehensions.

Interim City Attorney Steven Quintanilla provided the staff report.

Mayor Cabrera stepped away from the dais at 7:32pm.

With Mayor Cabrera away from the dais, Mayor Pro Tem Delgado called for Council questions of staff.

Council Member Marquez had questions for staff.

City Clerk Jane Halstead responded to Council Member Marquez's inquiries.

Mayor Pro Tem Delgado called for public comments to be heard.

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

Public comments were heard.

Eddie Torres

1. Oppose.

Mayor Cabrera returned to dais at 7:35pm.

Patrick Biggers

1. Support.

Daryl Terell

1. Support.

Mariluz Santistevan

1. Support.

Julio De Leon

1. Support.

Jason Sanistevan

1. Support.

Mike Walsh

1. Support.

Adrienne Wong

1. Oppose.

Eva Bitran

1. Oppose.

Vonya Quarles

1. Oppose.

Sean Fortine

1. Support.

Pete

1. Support.

Donovan Saadiq

1. Support.

Russell Shafer

1. Support.

Tom Jerele Sr.

1. Support.

Bob Palomarez

1. Support.

Louise Palomarez

1. Support.

Roy Bleckert

1. Support.

Council Member Marquez made an announcement that the public comments emailed to Council for this item did not go to the correct email address. With not receiving the comments until tonight, Council Member Marquez stated he will be abstaining from the vote on this matter.

Mayor Cabrera called for a motion.

Motion made by Mayor Pro Tem Delgado and seconded by Council Member Barnard to approve a Resolution of the City Council opposing Assembly Bill 742.

Motion passed by a vote of 3-1, with Council Member Baca-Santa Cruz, Council Member Barnard, and Mayor Pro Tem Delgado voting yes, Mayor Cabrera voting no, and Council Member Marquez abstaining.

Mayor Cabrera clarified the vote taken was for Item H.2.

RESULT:	**APPROVED [3 TO 1]**
MOVER:	Ed Delgado, Mayor Pro Tem
SECONDER:	Cheylynda Barnard, Council Member
AYES:	Ed Delgado, Cheylynda Barnard, Elena Baca-Santa Cruz
NAYS:	Ulises Cabrera
ABSTAIN:	David Marquez

I. REPORTS

I.1. CITY COUNCIL REPORTS

March Joint Powers Commission (JPC)

Mayor Pro Tem Delgado reported the following:

March JPC heard an update by Sheriff Bianco about plans to relocate the aviation unit to March Inland Port.

March JPC approved withdrawing the sale of Green Acres, to support the military housing needs at March.

Finally, the Commission approved the JPA's Legislative Platform for 2023.

Riverside County Habitat Conservation Agency (RCHCA)

None.

Riverside County Transportation Commission (RCTC)

None.

Riverside Transit Agency (RTA)

Council Member Marquez reported the following:

The Board authorized staff to join the Alliance for Renewable Clean Hydrogen Energy Systems and to apply to the Regional Clean Hydrogen Hubs Funding Opportunity.

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

The Board also approved and adopted Amendments to the Agency's Conflict of Interest Code.

Western Riverside Council of Governments (WRCOG)

Council Member Baca-Santa Cruz reported the following:

Items covered at the WRCOG Executive Committee meeting on March 6, 2023, included a presentation from the California Air Resources Board (CARB) on their recently adopted 2022 Scoping Plan for Achieving Carbon Neutrality for the State of California.

Western Riverside County Regional Conservation Authority (RCA)

Council Member Marquez reported the following:

Items covered at the RCA Board of Directors meeting on April 3, 2023, included a status report on acquisitions made by RCA. In the first month of the new 2023 calendar year, one parcel was acquired through donation, adding approximately 19 acres to the reserve.

School District/City Joint Task Force

None.

I.2. EMPLOYEE ASSOCIATION REPORTS

None.

I.3. CITY MANAGER'S REPORT

1. Free dump day.
2. Free household hazardous and electronic waste pick up.
3. Award from American Planning Association for Kaiser Master Plan project.

CLOSING COMMENTS AND/OR REPORTS OF THE CITY COUNCIL, COMMUNITY SERVICES DISTRICT, CITY AS SUCCESSOR AGENCY FOR THE COMMUNITY REDEVELOPMENT AGENCY, HOUSING AUTHORITY, PUBLIC FINANCING AUTHORITY, AND THE BOARD OF LIBRARY TRUSTEES.

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

Council Member Baca-Santa Cruz

1. Praised City and local events.
2. Resolutions of Censure.
3. Public Engagement.

Council Member Marquez

1. Praised City events.
2. Investigation.

Council Member Barnard

1. Praised City events.
2. Congratulated Manny Mancha on his retirement.
3. Progress of City.

Mayor Pro Tem Delgado

1. Promoted City events.
2. Lawn Maintenance.
3. Senior Center Renovation.

Mayor Cabrera

1. Comments to Council Member Baca-Santa Cruz.
2. Congratulated Manny Mancha on his retirement.
3. Praised City events.
4. League of California Cities Conference.

ADJOURNMENT

There being no further business to come before the City Council, Mayor Cabrera adjourned the meeting at 8:36pm.

PUBLIC INSPECTION

The contents of the agenda packet are available for public inspection on the City's

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

Any written information related to an open session agenda item that is known by the City to have been distributed to all or a majority of the City Council less than 72 hours prior to this meeting will be made available for public inspection on the City's website at www.moval.org and in the City Clerk's office at 14177 Frederick Street during normal business hours.

Submitted by:

_____
Jane Halstead, CMC
City Clerk
Secretary, Moreno Valley Community Services District
Secretary, City as Successor Agency for the Community
Redevelopment Agency of the City of Moreno Valley
Secretary, Moreno Valley Housing Authority
Secretary, Board of Library Trustees
Secretary, Public Financing Authority

Approved by:

_____
Ulises Cabrera
Mayor
City of Moreno Valley
President, Moreno Valley Community Services District
Chairperson, City as Successor Agency for the Community
Redevelopment Agency of the City of Moreno Valley
Chairperson, Moreno Valley Housing Authority
Chairperson, Board of Library Trustees
Chairperson, Public Financing Authority

Minutes Acceptance: Minutes of Apr 4, 2023 6:00 PM (CONSENT CALENDAR-CITY COUNCIL)

Report to City Council

TO:	Mayor and City Council
FROM:	Jane Halstead, CMC, City Clerk
AGENDA DATE:	April 18, 2023
TITLE:	COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR 2022/2023 FROM JULY 1, 2022 THROUGH MARCH, 31, 2023.

RECOMMENDED ACTION

Recommendation:

1. Receive and file the Fiscal Year 2022/2023 Council Discretionary Expenditure Report for July 1, 2022, through March 31, 2023.

SUMMARY

This staff report is prepared at the request of the City Council to provide transparency with respect to the expenditure of City funds from City Council Discretionary Expenditure Accounts. These reports are for each Council Member's year to date expenditures for Fiscal Year 2022/2023, for July 1, 2022 through March, 31, 2023. Each Council District receives an annual budget allocation of $3,000 and the Mayor receives an annual budget allocation of $6,000.

With the adoption of the current fiscal year budget and pursuant to Resolution No. 2021-31, unused monies from Fiscal Year 2021/2022 has been carried over to the current Fiscal Year as approved by the City Manager.

The expenditure reports are included routinely in the City Council agenda as an additional means of distributing reports on activities to the Council and public. The reports are to be posted to the City's website following Council approval. The monthly reports provide unaudited information and are reconciled to the City's general ledger. Following the end of the Fiscal Year, the financial information shall be reviewed as part of the City's independent financial audit.

NOTIFICATION

Posting of the agenda as required by the Brown Act.

PREPARATION OF STAFF REPORT

Prepared By:
Jasmin Rivera
Management Assistant

Department Head Approval:
Jane Halstead
City Clerk

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. FY 22-23 Expenditure Report Sheet

APPROVALS

Budget Officer Approval	✓ Approved	4/13/23 9:00 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/13/23 9:07 AM

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

MAYOR ULISES CABRERA

Fiscal Year 2022/2023 Council Discretionary Expenditures
Accounts: 1010-10-01-10015-620130 Mayor Discretionary
1010-10-01-10015-620131 Mayor Discretionary - Carryover
December 13, 2022 – March 31, 2023

Date	Amount	Description
12/27/2022	563.98	The Leela Project
		No expenditures to report for January 2023
2/17/2023	$ 372.60	For the People Event
3/14/2023	$ 103.87	Moreno Valley College Art Project - "MOVAL" Letters
3/27/2023	$ 300.00	Palm Middle School - Autism Art Show (PTA)

$ 1,340.45	TOTAL Council Discretionary Expenditures for FY 22/23
$ 3,000.00	FY 22/23 Adopted Budget Amount
$ -	Carryover Budget Amount FY 21/22
$ 3,000.00	FY 22/23 Amended Budget Amount

$ 1,659.55 FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

MAYOR PRO TEM EDWARD A. DELGADO

Fiscal Year 2022/2023 Council Discretionary Expenditures

Accounts: 1010-10-01-10012-620112 District 2 Discretionary

1010-10-01-10012-620117 District 2 Discretionary - Carryover

July 1, 2022 – March 31, 2023

Date	Amount	Description
		No expenditures to report for July 2022
8/2/2022	$ 108.25	Trailseekers Moreno Valley Equestrian Center Reservation
8/26/2022	$ 500.00	Diamond Girls Softball Association Team Contribution: Lady Outlaws
8/31/2022	$ 190.84	The Bob Hope Project Plaque
9/30/2022	$ 500.00	Canyon Springs Little League
9/30/2022	$ 187.50	Banning State of the City
10/24/2022	$ 208.54	Elks Lodge Hoop-Shoot
		No expenditures to report for November 2022
		No expenditures to report for December 2022
1/10/2023	$ 500.00	The Hole in Wall, Inc.
2/3/2023	$ 242.00	Trailseekers Moreno Valley Equestrian Center Reservation
		No expenditures to report for March 2023

$	2,437.13	TOTAL Council Discretionary Expenditures for FY 22/23
$	3,000.00	FY 22/23 Adopted Budget Amount
$	335.00	Carryover Budget Amount FY 21/22
$	3,335.00	FY 22/23 Amended Budget Amount
$	897.87	FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

COUNCIL DISTRICT 1 ELENA BACA-SANTA CRUZ

Fiscal Year 2022/2023 Council Discretionary Expenditures

Accounts: 1010-10-01-10011-620111 District 1 Discretionary

1010-10-01-10011-620116 District 1 Discretionary - Carryover

July 1, 2022 – March 31, 2023

Date	Amount	Description
		No expenditures to report for July 2022
8/31/2022	$ 200.00	Diamond Girls Softball Association Team Contribution: Ruthless
9/21/2022	$ 30.00	League of California Cities Riverside County Division Dinner
9/30/2022	$ 187.50	Banning State of the City
10/13/2022	$ 250.00	The Hole in Wall Inc.
10/31/2022	$ 49.37	Turning Red Tape into Red Carpet
		No expenditures to report for November 2022
12/29/2022	$ 250.00	Tuning Sounds Organization
		No expenditures to report for January 2023
		No expenditures to report for February 2023
2/28/2023	$ 190.71	Edgemont Women's Club Forum
3/24/2023	$ 250.00	Canyon Springs Little League

$ 1,407.58	TOTAL Council Discretionary Expenditures for FY 22/23
$ 3,000.00	FY 22/23 Adopted Budget Amount
$ 1,450.00	Carryover Budget Amount FY 21/22
$ 4,450.00	FY 22/23 Amended Budget Amount
$ 3,042.42	FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

COUNCIL DISTRICT 3 DAVID MARQUEZ

Fiscal Year 2022/2023 Council Discretionary Expenditures

Accounts: 1010-10-01-10013-620113 District 3 Discretionary

1010-10-01-10013-620118 District 3 Discretionary - Carryover

July 1, 2022 – March 31, 2023

Date	Amount	Description
7/31/2022	$ 50.00	Jamil Dada Awards Ceremony Dinner
8/26/2022	$ 500.00	Diamond Girls Softball Association Team Contribution: Luna Chicks
		No expenditures to report for September 2022
		No expenditures to report for October 2022
		No expenditures to report for November 2022
12/08/2022	$ 50.00	2022 State of Riverside County
		No expenditures to report for January 2023
2/8/2023	$ 500.00	Diamond Girls Softball Association Team Contribution: Mad Batters
2/22/2023	$ 1,000.00	Moreno Valley Community Band Wind Symphony
3/13/2023	$ 267.75	San Gorgonio Girl Scouts

$	2,367.75	TOTAL Council Discretionary Expenditures for FY 22/23
$	3,000.00	FY 22/23 Adopted Budget Amount
$	5,829.00	Carryover Budget Amount FY 21/22
$	8,829.00	FY 22/23 Amended Budget Amount
$	6,461.25	FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

COUNCIL DISTRICT 4 CHEYLYNDA BARNARD

Fiscal Year 2022/2023 Council Discretionary Expenditures

Accounts: 1010-10-01-10014-620114 District 4 Discretionary

1010-10-01-10014-620119 District 4 Discretionary - Carryover

December 13, 2022 – March 31, 2023

Date	Amount	Description
		No expenditures to report for December 2022
		No expenditures to report for January 2023
2/3/2023	$ 167.63	San Gorgonio Girl Scouts
		No expenditures to report for March 2023

$ 167.63	TOTAL Council Discretionary Expenditures for FY 22/23
$ 1,500.00	FY 22/23 Adopted Budget Amount
$ -	Carryover Budget Amount FY 21/22
$ 1,500.00	FY 22/23 Amended Budget Amount

$ 1,332.37 FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

COUNCIL DISTRICT 4 ULISES CABRERA

Fiscal Year 2022/2023 Council Discretionary Expenditures

Accounts: 1010-10-01-10014-620114 District 4 Discretionary

1010-10-01-10014-620119 District 4 Discretionary - Carryover

July 1, 2022 – December 13, 2022

Date	Amount	Description
7/29/2022	$ 500.00	Community Health Systems, Inc Backpack Giveaway
7/29/2022	$ 500.00	Moreno Valley Community Band/ Wind Symphony Student Dues contribution
7/31/2022	$ 50.00	Jamil Dada Awards Ceremony Dinner
7/31/2022	$ 53.98	District 4 Town Hall Beverages and Snacks
7/31/2022	$ 14.52	District 4 Town Hall Beverages and Snacks
7/31/2022	$ 24.60	District 4 Town Hall Beverages and Snacks
8/8/2022	$ 400.00	Moreno Valley Unified School District Health & Resource Fair Supplies
8/26/2022	$ 300.00	Blessed Ministry CDC Backpack Giveaway
9/30/2022	$ 187.50	Banning State of the City
10/31/2022	$ 787.79	Valley View High School Football Team- Pre-Game Meal Raising Cane's
		No expenditures to report for November 2022

$	2,818.39	TOTAL Council Discretionary Expenditures for FY 22/23
$	3,000.00	FY 22/23 Adopted Budget Amount
$	-	Carryover Budget Amount FY 21/22
$	3,000.00	FY 22/23 Amended Budget Amount
$	181.61	FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.

Updated as of: 4/12/2023

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

MAYOR DR. YXSTIAN A. GUTIERREZ
Fiscal Year 2022/2023 Council Discretionary Expenditures
Accounts: 1010-10-01-10015-620130 Mayor Discretionary
1010-10-01-10015-620131 Mayor Discretionary - Carryover
July 1, 2022 – December 12, 2023

Date	Amount	Description
7/31/2022	$ 50.00	Jamil Dada Awards Ceremony Dinner
8/31/2022	$ 500.00	Diamond Girls Softball Association Team Contribution: Luna Chicks
9/01/2022	$ 1,000.00	Valley View High School Football Team Uniforms
9/21/2022	$ 30.00	League of California Cities Riverside County Division Dinner
9/30/2022	$ 187.50	Banning State of the City
11/28/2022	$ 9,622.63	Mayor's Turkey Give Away - Turkeys

$ 11,390.13 TOTAL Council Discretionary Expenditures for FY 22/23

$ 6,000.00 FY 22/23 Adopted Budget Amount
$ 5,767.00 Carryover Budget Amount FY 21/22
$ 11,767.00 FY 22/23 Amended Budget Amount

$ 376.87 FY 22/23 Budget Amount Remaining

Source: Unaudited financial data from the City's accounting records.
Updated as of: 4/12/2023

Attachment: FY 22-23 Expenditure Report Sheet [Revision 1] (6109 : COUNCIL DISCRETIONARY EXPENDITURE REPORTS FOR FISCAL YEAR

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: April 18, 2023

TITLE: PAYMENT REGISTER - FEBRUARY 2023

RECOMMENDED ACTION

Recommendation:

1. Receive and file the Payment Register.

SUMMARY

The Payment Register is an important report providing transparency of financial transactions and payments for City activity for review by the City Council and the residents and businesses in Moreno Valley. The report is posted to the City's website as soon as it is available. The report is included in the City Council agenda as an additional means of distributing the report.

The payment register lists in alphabetical order all checks and wires in the amount of $25,000 or greater, followed by a listing in alphabetical order of all checks and wires less than $25,000. The payment register also includes the fiscal year-to-date (FYTD) amount paid to each vendor.

PREPARATION OF STAFF REPORT

Prepared By:
Annabelle Wang
Financial Operations Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager
Chief Financial Officer
Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. 2023_FebruaryPaymentRegsiter

APPROVALS

Budget Officer Approval	✓ Approved	4/12/23 9:35 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/12/23 9:37 AM

City of Moreno Valley
Payment Register
For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ABB, INC.	35895	02/15/2023	7105834780	RELAYS REPLACEMENT PROJECT SERVICES FOR MOVAL SUBSTATION UPGRADE		$28,240.00
Remit to: CARY, NC					FYTD:	$50,182.00
ALL AMERICAN ASPHALT, INC.	244946	02/08/2023	200252	CITYWIDE PAVEMENT REHAB FY 20/21 CITYWIDE		$1,358,425.11
		02/08/2023	200691	PAVEMENT REHAB FY 20/21 JUAN BAUTISTA		
		02/08/2023	33507_9.2	TRAIL ATP 2		
Remit to: CORONA, CA					FYTD:	$9,320,027.06
ARAGON GEOTECHNICAL, INC.	35747	02/01/2023	8333	CITYWIDE PVT REHAB PROG (FY 21-26)		$56,089.50
		02/01/2023	8370	CITYWIDE PVT REHAB PROG (FY 21-26)		
Remit to: RIVERSIDE, CA					FYTD:	$159,044.15
ARIA MANAGEMENT LLC	35748	02/01/2023	JANUARY 2023	LEASE PAYMENT-LIBRARY-JANUARY 2023		$27,704.50
		02/01/2023	FEBRUARY 2023	LEASE PAYMENT-LIBRARY-FEBRUARY 2023		
Remit to: YORBA LINDA, CA					FYTD:	$117,422.46
ASSISTANCE LEAGUE OF RIVERSIDE	35749	02/01/2023	NOVEMBER 2022	OPERATION SCHOOL BELL PROGRAM 22/23		$30,000.00
		02/01/2023	OCTOBER 2022	OPERATION SCHOOL BELL PROGRAM 22/23		
Remit to: RIVERSIDE, CA					FYTD:	$30,000.00
BEST CONTRACTING SERVICES, INC	35962	02/22/2023	21510-MFPCC	ROOF REPLACEMENT-DEC.22-MARCH FIELD PARK CC		$29,181.66
		02/22/2023	21510-CRC	ROOF REPLACEMENT-DEC.22-CONFERENCE & REC. CENTER		
		02/22/2023	21510-AS	ROOF REPLACEMENT-DEC.22-ANIMAL SHELTER		
Remit to: GARDENA, CA					FYTD:	$834,142.31

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
BRIGHTLIFE DESIGNS LLC	35808	02/08/2023	1395	HOLIDAY TREE DECOR & LIGHTING - INSTALLATION & REMOVAL SERVICES		$31,391.85
Remit to: HUNTINGTON BEACH, CA					FYTD:	$31,391.85
CALIFORNIA HIGHWAY PATROL	244948	02/08/2023	1487961	SR-60/MORENO BEACH IC PHASE 2		$25,638.11
Remit to: SACRAMENTO, CA					FYTD:	$25,638.11
CASC ENGINEERING AND CONSULTING, INC.	35751	02/01/2023	0047418	ENVIRONMENTAL ASSESSMENT-SEPTEMBER 2022		$26,398.77
		02/01/2023	0046856	ENVIRONMENTAL ASSESSMENT-JULY 2022		
		02/01/2023	0047176	ENVIRONMENTAL ASSESSMENT-AUGUST 2022		
		02/01/2023	0046709	ENVIRONMENTAL ASSESSMENT-JUNE 2022		
Remit to: COLTON, CA					FYTD:	$56,476.02
CHARLES ABBOTT ASSOCIATES, INC.	35966	02/22/2023	65325	PLAN CHECK SVCS-TR38236/PEN21-0184-JANUARY 2023		$33,461.00
		02/22/2023	65187	ENGINEERING SVCS-DECEMBER 2022		
		02/22/2023	65188	PLAN CHECK SVCS-TR37909 PEN20-0063-DECEMBER 2022		
		02/22/2023	65189	PLAN CHECK SVCS-TR38236/PEN21-0184-DECEMBER 2022		
		02/22/2023	65192	PLAN CHECK SVCS-WQMP REVIEW-DECEMBER 2022		
		02/22/2023	65326	PLAN CHECK SVCS-HIGHLAND FAIRVIEW/WLC-JANUARY 2023		
		02/22/2023	65191	PLAN CHECK SVCS-NPDES-DECEMBER 2022		
Remit to: MISSION VIEJO, CA					FYTD:	$376,848.50
CHRIS ALAN VOGT DBA CAV CONSULTING	35752	02/01/2023	21045	PROJECT MANAGER CONSULTING SERVICES (CPD)		$54,083.00
Remit to: RIVERSIDE, CA					FYTD:	$301,244.75

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CIVIC SOLUTIONS, INC	35968	02/22/2023	123122	PLANNING ENTITLEMENT AND PLAN CHECK SVCS		$27,322.70
		02/22/2023	93022	PLANNING ENTITLEMENT AND PLAN CHECK SVCS		
Remit to: MISSION VIEJO, CA					FYTD:	$68,498.54
COSCO FIRE PROTECTION, INC.	244991	02/15/2023	1000601259	ANNUAL FIRE SPRINKLER REPAIRS-CITY HALL		$34,683.67
		02/15/2023	1000590787	ANNUAL HYDRANT INSP REPAIRS-PUBLIC SAFETY BLDG.		
		02/15/2023	1000591506	ANNUAL FIRE HYDRANT INSPECTION REPAIRS-CITY HALL		
		02/15/2023	1000595400	FIRE SPRINKLER REPAIRS-FIRE STATION 6		
Remit to: BREA, CA					FYTD:	$146,451.49
COUNTY OF RIVERSIDE FIRE DEPT	35907	02/15/2023	234944	FIRE SERVICES CONTRACT-1ST QTR (FPARC-MV,		$5,206,590.97
Remit to: PERRIS, CA					FYTD:	$14,564,179.04
COUNTY OF RIVERSIDE SHERIFF	35817	02/08/2023	SH0000042332	CONTRACT LAW ENFORCEMENT BILLING #5 (10/20/22-11/16/22)		$3,557,350.90
Remit to: RIVERSIDE, CA					FYTD:	$29,952,728.01
E SOURCE COMPANIES LLC	35758	02/01/2023	21807	CONSULTING SERVICES-MV UTILITIES/NOVEMBER 2022		$43,500.00
		02/01/2023	21930	CONSULTING SERVICES-MV UTILITIES/DECEMBER 2022		
Remit to: BOULDER, CO					FYTD:	$196,320.40
EASTERN MUNICIPAL WATER DISTRICT	245034	02/22/2023	JAN-23 2/22/2023	WATER CHARGES		$29,656.04
Remit to: LOS ANGELES, CA					FYTD:	$1,463,705.69

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
ENCO UTILITY SERVICES MORENO VALLEY LLC	35913	02/15/2023	INV58002	SOLAR SYSTEM INSPECTION	$50,452.45
		02/15/2023	C22-25	KITCHING ST & SUNNYMEAD BLVD-VEHICLE HIT STREETLIGHT	
		02/15/2023	INV57953	SOLAR SYSTEM INSPECTION	
		02/15/2023	INV57115	METER FEES-HARDESTY & ASSOC/LENNAR HOMES/SEMPER SOLARIS	
		02/15/2023	INV58003	SOLAR SYSTEM INSPECTION	
		02/15/2023	C22-30	ALESSANDRO, EAST OF FREDERICK-VEHICLE HIT STREETLIGHT	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
ENCO UTILITY SERVICES MORENO VALLEY LLC	35976	02/22/2023	40-495-01	WA# 40-495-ATT STREETLIGHT UPGRADES FOR 3 ANTENNA INSTALLATIONS	$53,869.62
		02/22/2023	40-525A-03	WA# 40-525A-HILTON GARDEN INN	
		02/22/2023	40-501-2301	MVU CONTRACT 40-501-ACQUIRED SCE STREETLIGHTS MAINTENANCE	
		02/22/2023	INV58105	SOLAR SYSTEM INSPECTION	
		02/22/2023	40-523B-02	WA# 40-523B-MV MARKETPLACE	
		02/22/2023	40-490B-05	WA# 40-490B-CACTUS COMMERCE - STARBUCKS	
		02/22/2023	40-527-05	WA# 40-527-WORLD LOGISTICS CENTER	
		02/22/2023	40-496-01	WA# 40-496-ATT STREETLIGHT UPGRADES FOR 1 ANTENNA INSTALLATION	
		02/22/2023	40-505A-09	WA# 40-505A-TRACT 37725 - 64 SF HOMES	
		02/22/2023	40-515B-02	WA# 40-515B-JIFFY LUBE	
		02/22/2023	40-522A-03	WA# 40-522A-EDWIN 12KV AND MARCH 12KV CIRCUIT TIE	
		02/22/2023	40-520A-04	WA# 40-520A-NASON 12KV AND PERRIS 12KV CIRCUIT TIE	
		02/22/2023	40-529A-02	WA# 40-529A-FLITE BANK ATM	
		02/22/2023	40-506A-08	WA# 40-506A-ROCAS GRANDES APARTMENTS	
		02/22/2023	40-508-08	WA# 40-508-CYBER SECURITY MONITORING	
		02/22/2023	40-521A-03	WA# 40-521A-CACTUS 12KV AND PERRIS 12KV CIRCUIT TIE	
		02/22/2023	INV58106	SOLAR SYSTEM INSPECTION	
		02/22/2023	40-433B-06	WA# 40-433B-PAMA BUSINESS PARK	
		02/22/2023	40-455B-04	WA# 40-455B-MORENO VALLEY ELEMENTARY SCHOOL	
		02/22/2023	40-410B-10	WA# 40-410B-VILLA ANNETTE APARTMENT HOMES	
		02/22/2023	50-514A-08	WA# 40-514A-SKYLER PLACE - TR 38123 177 SFR	
		02/22/2023	INV58140	SOLAR SYSTEM INSPECTION	
		02/22/2023	40-530-01	WA# 40-530-DISTRIBUTION SYSTEM PLANNING UPDATE	
		02/22/2023	INV58107	SOLAR SYSTEM INSPECTION	
		02/22/2023	40-474B-04	WA# 40-474B-KB HOMES -MOOTHART 80 HOMES	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	
ENCO UTILITY SERVICES MORENO VALLEY LLC	35976	02/22/2023	40-405B-09	WA# 40-405B-MORENO BEACH DR BRIDGE CROSSING	
		02/22/2023	INV58104	SOLAR SYSTEM INSPECTION	
		02/22/2023	40-476B-04	WA# 40-476B-ROSS GENERATOR PROJECT	
		02/22/2023	40-536-01	WA# 40-536-ROSS DISTRIBUTION CENTER OUTAGE	
		02/22/2023	40-533A-02	WA# 40-533A-MISTER CAR WASH	
		02/22/2023	40-531A-03	WA# 40-531A-PROCTOR & GAMBLE TRANSFORMER UPGRADE	
		02/22/2023	INV58108	SOLAR SYSTEM INSPECTION	
Remit to: ANAHEIM, CA				FYTD:	$6,301,120.41
EXELON GENERATION COMPANY, LLC	35914	02/15/2023	863649	POWER PURCHASE-1/01-1/31/23	$517,700.16
Remit to: CHICAGO, IL				FYTD:	$5,927,195.91
FH II LLC	244972	02/08/2023	TRACT 31618	REIMBURSEMENT FOR ELECTRIC INFRASTRUCTURE INSTALLED ON BAY AVE.	$85,558.60
Remit to: ONTARIO, CA				FYTD:	$103,177.32
GREENTECH LANDSCAPE, INC.	35916	02/15/2023	54977	LANDSCAPE MAINT-PARKS-JANUARY 2023	$107,312.56
		02/15/2023	54976	SD LANDSCAPE BASE (SOUTH) JAN ZN 03, 03A, 04, 05, 06, 07, & E-8	
		02/15/2023	54975	SD LANDSCAPE BASE (WEST) JANUARY ZONE 01, 01A, 08, & E-7	
		02/15/2023	54769	SD LANDSCAPE BASE (VALLEY) DECEMBER ZONE D	
		02/15/2023	54768	LANDSCAPE MAINT-PARKS-DECEMBER 2022	
		02/15/2023	54766	SD LANDSCAPE BASE (WEST) DECEMBER ZONE 01, 01A,, 08 & E-7	
		02/15/2023	54978	SD LANDSCAPE BASE JANUARY ZONE D	
Remit to: LOS ANGELES, CA				FYTD:	$834,409.45

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
HABITAT FOR HUMANITY RIVERSIDE	35761	02/01/2023	MHR2122 - INV18	MOBILE HOME REPAIR PROGRAM-DECEMBER 2022		$45,251.73
		02/01/2023	CHR21 - INV18	HOME-CRITICAL HOME REPAIR PROGRAM-DEC 2022		
		02/01/2023	CHR21 - INV17	HOME-CRITICAL HOME REPAIR PROGRAM-NOV 2022		
Remit to: RIVERSIDE, CA					FYTD:	$147,049.21
LEAGUE OF CALIFORNIA CITIES-RIVERSIDE COUNTY DIV	245038	02/22/2023	643439	MEMBERSHIP DUES FOR CALENDAR YEAR 2023		$39,485.00
Remit to: SACRAMENTO, CA					FYTD:	$40,025.00
LIBRARY SYSTEMS & SERVICES, LLC	35766	02/01/2023	INV7013	LIBRARY CONTRACT SERVICES & MATERIALS-MAIN/ MALL/IRIS-FEBRUARY 2023		$201,418.07
Remit to: ROCKVILLE, MD					FYTD:	$1,460,776.55
LYONS SECURITY SERVICE, INC.	35988	02/22/2023	35043	SECURITY GUARD SVCS-ERC-JANUARY 2023		$26,177.35
		02/22/2023	35046	SECURITY GUARD SVCS-TOWNGATE-JANUARY 2023		
		02/22/2023	30335	SECURITY GUARD SVCS-COTTONWOOD SPECIAL EVENT-DECEMBER 2022		
		02/22/2023	35045	SECURITY GUARD SVCS-SENIOR CENTER-JANUARY 2023		
		02/22/2023	35042	SECURITY GUARD SVCS-CONF & REC CTR EVENTS-JANUARY 2023		
		02/22/2023	35041	SECURITY GUARD SVCS-CONF & REC CTR-JANUARY 2023		
		02/22/2023	35040	SECURITY GUARD SVCS-COTTONWOOD SPECIALL EVENT-JANUARY 2023		
		02/22/2023	35038	SECURITY GUARD SVCS-COMMUNITY PARK-JANUARY 2023		
		02/22/2023	35039	SECURITY GUARD SVCS-CITY HALL-JANUARY 2023		
		02/22/2023	35044	SECURITY GUARD SVCS-LIBRARY-JANUARY 2023		
Remit to: ANAHEIM, CA					FYTD:	$224,893.79

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
M. BREY ELECTRIC, INC.	35926	02/15/2023	8303	2ND FLOOR DATA & POWER RECEPTACLES-EMERGENCY OPERATIONS CENTER	$30,480.00
	35989	02/22/2023	8297	DEMOLISH EXISTING & INSTALL 3 NEW SHELTERS AT COMMUNITY PARK	$47,950.00
Remit to: BEAUMONT, CA				FYTD:	$576,757.72

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MARIPOSA LANDSCAPES, INC.	35927	02/15/2023	101102	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/BAY AVE. TO GRAHAM-JAN. 2023	$42,830.64
		02/15/2023	101112	LANDSCAPE MAINT.-CITY YARD-JAN. 2023	
		02/15/2023	101111	LANDSCAPE MAINT.-MARCH ANNEX BUILDING-JAN. 2023	
		02/15/2023	101110	LANDSCAPE MAINT.-ANIMAL SHELTER-JAN. 2023	
		02/15/2023	101109	LANDSCAPE MAINT.-AQUEDUCT/SCE AND OLD LAKE DRIVE-JAN. 2023	
		02/15/2023	101108	LANDSCAPE MAINT.-SOUTH AQUEDUCT B-JAN. 2023	
		02/15/2023	101107	LANDSCAPE MAINT.-SOUTH AQUEDUCT A-JAN. 2023	
		02/15/2023	101106	LANDSCAPE MAINT.-PAN AM SECTION AQUEDUCT-JAN. 2023	
		02/15/2023	101105	LANDSCAPE MAINT.-NORTH AQUEDUCT-JAN. 2023	
		02/15/2023	101122	LANDSCAPE MAINT.-VETERANS MEMORIAL-JAN. 2023	
		02/15/2023	101103	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY-DELPHINIUM/PERHAM TO JFK-JAN23	
		02/15/2023	101117	LANDSCAPE MAINT.-SENIOR CENTER-JAN. 2023	
		02/15/2023	101116	LANDSCAPE MAINT.-PUBLIC SAFETY BUILDING-JAN. 2023	
		02/15/2023	101104	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/VANDENBERG TO FAY-JAN. 2023	
		02/15/2023	101099	SD LANDSCAPE BASE JANUARY ZONE 02	
		02/15/2023	101115	LANDSCAPE MAINT.-LIBRARY-JAN. 2023	
		02/15/2023	101100	LANDSCAPE MAINT.-TOWNGATE COMMUNITY CENTER-JAN. 2023	
		02/15/2023	101101	LANDSCAPE MAINT.-TOWNGATE AQUEDUCT BIKEWAY-JAN. 2023	
		02/15/2023	101123	LANDSCAPE MAINT.-CITY YARD SANTIAGO OFFICE-JAN. 2023	
		02/15/2023	101125	LANDSCAPE MAINT.-AQUEDUCT BIKEWAY/FAY TO GENTIAN-JAN. 2023	
		02/15/2023	101126	LANDSCAPE MAINT.-AMPHITHEATER FACILITY-JAN. 2023	
		02/15/2023	101309	SD LANDSCAPE ADDITIONAL WORK ZONE 02	
		02/15/2023	101333	SD LANDSCAPE ADDITIONAL WORK ZONE 02	
		02/15/2023	101121	LANDSCAPE MAINT.-CITY HALL ANNEX-JAN. 2023	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	
MARIPOSA LANDSCAPES, INC.	35927	02/15/2023	101120	LANDSCAPE MAINT.-CITY HALL-JAN. 2023	
		02/15/2023	101119	LANDSCAPE MAINT.-FIRE STATIONS 2, 6, 48, 58, 65, 91, & 99-JAN23	
		02/15/2023	101128	SD LANDSCAPE BASE JANUARY WQB	
		02/15/2023	101113	LANDSCAPE MAINT.-CONFERENCE & REC. CENTER-JAN. 2023	
Remit to: IRWINDALE, CA				FYTD:	$413,196.76
MERCHANTS BUILDING MAINTENANCE, LLC.	35990	02/22/2023	714314	SPECIAL CLEANING - STRIP AND REFINISH PSB MAILROOM AREA	$115,001.02
		02/22/2023	714248	SPECIAL CLEANING - PSB DETECTIVE AREA CARPET STAINS	
		02/22/2023	720168	CITY-WIDE ROUTINE JANITORIAL SERVICES - JAN. 2023	
		02/22/2023	720195	COMMUNITY PARK RESTROOMS DAY PORTER SERVICES-JAN. 2023	
		02/22/2023	714252	SPECIAL CLEANING - PSB INVESTIGATION AREA CARPET	
		02/22/2023	713237	CITY-WIDE ROUTINE JANITORIAL SERVICES - DEC. 2022	
		02/22/2023	720315	DAY PORTER SERVICES FOR ENHANCED COVID-19 CLEANING-JAN. 2023	
Remit to: MONTEREY PARK, CA				FYTD:	$585,835.67
MUSCO SPORTS LIGHTING, LLC	35854	02/08/2023	403582	INSTALLATION FOR VICTORIANO PARK LIGHTING PROJECT	$216,838.39
Remit to: OSKALOOSA, IA				FYTD:	$457,654.26
ONESOURCE DISTRIBUTORS, INC.	35771	02/01/2023	S6970646.001	STREETLIGHT POLES AND ARMS FOR STOCK - 28 FT.	$37,355.85
Remit to: OCEANSIDE, CA				FYTD:	$238,995.51
ORACLE AMERICA	35997	02/22/2023	100603850	ORACLE UTILITIES CUSTOMER CLOUD SERVICES	$70,371.95
Remit to: REDWOOD SHORES, CA				FYTD:	$211,115.85

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
R J NOBLE CO., INC.	35936	02/15/2023	221972	CITYWIDE PVT REHAB PROG (FY26-31)		$620,604.98
Remit to: ORANGE, CA					FYTD:	$5,266,405.96
RACEWAY FORD	245051	02/22/2023	95367	FORD T350 EV VAN FOR SUSTAINABILITY DIV. - VIN 1FTBW1YK7NKA12919		$58,474.87
Remit to: RIVERSIDE, CA					FYTD:	$58,474.87
SKANSKA USA CIVIL WEST CALIFORNIA DISTRICT, INC.	35779	02/01/2023	2	SR60 MORENO BEACH DR PHSE 2		$827,006.86
		02/01/2023	1	SR60 MORENO BEACH DR PHSE 2		
	35871	02/08/2023	3	SR60 MORENO BEACH PH 2		$2,348,041.86
Remit to: RIVERSIDE, CA					FYTD:	$3,175,048.72

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
SOUTHERN CALIFORNIA EDISON	244960	02/08/2023	7501508873	WDAT CHARGES-MVU/IRIS AVE.-DEC. 2022	$42,288.52
		02/08/2023	7501508876	WDAT CHARGES-MVU/NANDINA AVE.-DEC. 2022	
		02/08/2023	7501508877	WDAT CHARGES-MVU/FREDERICK AVE.-DEC. 2022	
		02/08/2023	7501508878	WDAT CHARGES-MVU/SUBSTATION 115KV INTERCONNECTION-DEC. 2022	
		02/08/2023	7501508874	WDAT CHARGES-MVU/GRAHAM ST.-DEC. 2022	
		02/08/2023	7501508875	WDAT CHARGES-MVU/GLOBE ST.-DEC. 2022	
		02/08/2023	7501508855	WDAT CHARGES-MVU/17160 KITCHING ST. SUBSTATION-DEC. 2022	
		02/08/2023	7501508881	WDAT CHARGES-MVU/24417 NANDINA AVE. SUBSTATION-DEC. 2022	
	245003	02/15/2023	431591238/JAN-23	ELECTRICITY CHARGES FOR ACQUIRED STREETLIGHTS	$102,008.20
		02/15/2023	282492235/JAN-23	ELECTRICITY-FERC CHARGES/MVU	
		02/15/2023	355556776/JAN-23	ELECTRICITY CHARGES FOR ACQUIRED STREETLIGHTS	
		02/15/2023	433869021/JAN-23	ELECTRICITY CHARGES FOR ADDED STREETLIGHTS	
		02/15/2023	435293103/JAN-23	ELECTRICITY CHARGES FOR ADDED STREETLIGHTS	
		02/15/2023	498683714/JAN-23	ELECTRICITY CHARGES FOR ACQUIRED STREETLIGHTS	
		02/15/2023	559238386/JAN-23	IFA & DISTRIBUTION UPGRADE CHARGES-KITCHING SUBSTATION	
		02/15/2023	JAN-23 2/15/23	ELECTRICITY CHARGES	
		02/15/2023	570511709/JAN-23	IFA CHARGES-SUBSTATION	
Remit to: ROSEMEAD, CA				FYTD:	$1,734,195.36
SOUTHERN CALIFORNIA GAS CO.	245044	02/22/2023	JAN-2023	GAS CHARGES	$65,950.88
Remit to: MONTEREY PARK, CA				FYTD:	$140,688.70

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
STEVEN B. QUINTANILLA A PROFESSIONAL CORPORATION	35942	02/15/2023	NOVEMBER 2022	LEGAL SERVICES 11/1 TO 11/30/22		$114,628.47
		02/15/2023	OCT. 2022-INV 2	LEGAL SERVICES 10/1 TO 10/31/22 - INVOICE 2 OF 2		
Remit to: PALM SPRINGS, CA					FYTD:	$1,054,302.36
SYNERGY COMPANIES	244965	02/08/2023	MVU RES DI 01-23	ENERGY AUDITS & INSTALLATION OF ENERGY EFFICIENT MEASURES-JAN23		$44,249.41
Remit to: HAYWARD, CA					FYTD:	$214,182.48
THE ADVANTAGE GROUP/ FLEX ADVANTAGE	35874	02/08/2023	202302	FEBRUARY 2023 RETIREE MEDICAL BENEFIT BILLING		$56,145.26
Remit to: TEMECULA, CA					FYTD:	$408,496.81
THE ALTUM GROUP	35781	02/01/2023	8140	MARCH FIELD PUMP TRUCK_DIRECT PAY		$27,260.54
		02/01/2023	8228	MARCH FIELD PUMP TRUCK_DIRECT PAY		
Remit to: PALM DESERT, CA					FYTD:	$27,260.54
THINK TOGETHER, INC.	35876	02/08/2023	111-23-07	ASES EXPANDED LEARNING PROGRAM MGMT. SERVICES-INSTALLMENT #7		$684,515.81
Remit to: SANTA ANA, CA					FYTD:	$7,530,032.40
TKE ENGINEERING INC.	244910	02/01/2023	2022-1295	CITYWIDE PVT REHAB PROG (FY 21-26)		$26,667.50
	244966	02/08/2023	2022-1168	CITYWIDE PVT REHAB PROG (FY 21-26)		$31,375.00
Remit to: RIVERSIDE, CA					FYTD:	$226,700.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TRANSTECH ENGINEERS, INC.	35783	02/01/2023	20222275	SR60/REDLANDS BLVD INTERCHANGE		$56,089.12
		02/01/2023	20231034	SR60/REDLANDS BLVD INTERCHANGE		
Remit to: CHINO, CA					FYTD:	$184,473.27
U.S. BANK/CALCARDS	35786	02/01/2023	01-27-23	JANUARY 2023 CALCARD ACTIVITY		$287,473.42
Remit to: ST. LOUIS, MO					FYTD:	$2,546,591.30
WELLS FARGO CORPORATE TRUST	36174	02/14/2023	W230202	DEBT SERVICE-CFD NO 87-1 (TOWNGATE) IMP AREA 1 & CFD NO 7 IMP 1		$152,895.71
Remit to: LOS ANGELES, CA					FYTD:	$4,548,332.03
WEST COAST ARBORISTS, INC.	35954	02/15/2023	194679	TREE MAINTENANCE - ZONE D		$33,334.50
		02/15/2023	194690	TREE MAINTENANCE SERVICES - ZONE 06		
Remit to: ANAHEIM, CA					FYTD:	$254,873.77
WILLDAN FINANCIAL SERVICES	35955	02/15/2023	010-53825	CARES ACT GRANT ADMINISTRATION SERVICES-JAN. 2023		$42,675.00
		02/15/2023	010-53824	GRANT ADMINISTRATION SERVICES-JAN. 2023		
		02/15/2023	010-53054	PROFESSIONAL SERVICES-ADDITIONAL TASKS RELATED TO THE NEXUS STUDY		
		02/15/2023	010-53827	HOME-ARP GRANT ADMINISTRATION SERVICES-JAN. 2023		
Remit to: TEMECULA, CA					FYTD:	$330,539.64
WILMINGTON TRUST	36173	02/14/2023	W230201	DEBT SERVICE - STONERIDGE CFD NO. 5 SPECIAL TAXES		$178,330.37
Remit to: WILMINGTON, DE					FYTD:	$416,853.81

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS IN THE AMOUNT OF $25,000 OR GREATER

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
WRCRCA	35792	02/01/2023	OCT-2022 MSHCP	MSHCP FEES COLLECTED FOR OCT 2022-COMMERCIAL/INDUSTRIAL		$47,429.88
	35793	02/01/2023	NOV-2022 MSHCP	MSHCP FEES COLLECTED FOR NOV 2022-RESIDENTIAL & COMMERCIAL/IND.		$225,133.16
	35794	02/01/2023	DEC-2022 MSHCP	MSHCP FEES COLLECTED FOR DEC 2022-RESIDENTIAL SINGLE & MULTI-FAMILY		$79,936.00
Remit to: RIVERSIDE, CA					FYTD:	$707,931.11
WSP USA, INC.	36017	02/22/2023	AR1265194	SUNNYMEAD MDP LINE F AND F-7		$83,189.76
Remit to: SAN BERNARDINO, CA					FYTD:	$201,094.91

TOTAL AMOUNTS OF $25,000 OR GREATER **$18,523,476.2**

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
A B C FOOD STORE	244915	02/01/2023	BL#28343-YR2023	REFUND OF OVERPAYMENT FOR BL#28343		$310.70
Remit to: MORENO VALLEY, CA					FYTD:	$310.70
ABB, INC.	35799	02/08/2023	7105790983	ENGINEERING SVCS-NOVEMBER 2022		$21,942.00
		02/08/2023	7105794066	RELAY PROGRAMMING-NOVEMBER 2021		
Remit to: CARY, NC					FYTD:	$50,182.00
ACCO ENGINEERED SYSTEMS, INC	35744	02/01/2023	20340076	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 65		$7,318.00
		02/01/2023	20359773	EVAPORATOR COIL CLEANINGS-EMERGENCY OPS CENTER		
		02/01/2023	20340075	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 58		
		02/01/2023	20340073	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 6		
		02/01/2023	20340078	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 99		
		02/01/2023	20340079	ICE MACHINE PREV. MAINTENANCE-PUBLIC SAFETY BLDG.		
		02/01/2023	20340072	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 2		
	35896	02/15/2023	20340074	ICE MACHINE PREV. MAINTENANCE-FIRE STATION 48		$5,383.00
		02/15/2023	20366922	HVAC PREV MAINTENANCE-ANNEX 1		
		02/15/2023	20329309	ICE MACHINE PREV. MAINTENANCE-CONFERENCE & REC. CENTER		
		02/15/2023	20329308	ICE MACHINE PREV. MAINTENANCE-EMERGENCY OPS CENTER		
		02/15/2023	20329307	ICE MACHINE PREV. MAINTENANCE-CITY YARD		
	35957	02/22/2023	20368811	ICE MACHINE WATER LEAK REPAIR-CITY YARD		$9,881.50
		02/22/2023	20369435	BALLROOM UNITS ARE NOT COOLING-SENIOR CENTER		
		02/22/2023	20367839	HVAC MAINTENANCE REPAIRS-ANNEX 1		
		02/22/2023	20367837	ICE BIN SENSOR REPLACEMENT-FIRE STATION 58		
		02/22/2023	20370609	RTU REPLACE (6) 12" FILTERS-EMERGENCY OPS CENTER		
		02/22/2023	20367838	BUILDING PRESSURE ISSUES-CITY YARD SANTIAGO		
Remit to: PASADENA, CA					FYTD:	$146,166.50

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ADOPT A HIGHWAY LITTER REMOVAL SERVICE OF AMERICA	35800	02/08/2023	228167	HWY 60 WESTBOUND		$625.00
Remit to: ENCINITAS, CA					FYTD:	$5,000.00
ADVANCED APPLIED ENGINEERING, INC	35958	02/22/2023	28183	PLANNING CONSULTANT SERVICES-DECEMBER 2022		$6,043.75
Remit to: BREA, CA					FYTD:	$24,430.00
AIR EXCHANGE INC	35959	02/22/2023	91608703	PLYMOVENT MAINT & REPAIR-FIRE STATIONS		$932.16
Remit to: FAIRFIELD, CA					FYTD:	$5,411.40
AIRESPRING INC.	35897	02/15/2023	169080730	LOCAL/LONG DISTANCE CALLS & INTERNET SVC - JAN/FEB 2023		$2,803.20
Remit to: VAN NUYS, CA					FYTD:	$22,988.03
ALI, SHAIKH	35801	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
ALISAM MORENO OPERATING, INC DBA WATERDROPS EXPRES	35802	02/08/2023	MVPD 105	CAR WASHING SERVICES FOR POLICE PATROL VEHICLES 12/1-12/31/22		$346.50
		02/08/2023	MVPD 104	CAR WASHING SERVICES FOR POLICE PATROL VEHICLES 11/1-11/30/22		
	35898	02/15/2023	MVPD 106	CAR WASHING SERVICES FOR POLICE PATROL VEHICLES 1/1-1/31/23		$159.50
Remit to: WOODLAND HILLS, CA					FYTD:	$1,933.50

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley
Payment Register
For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
AMERICAN FORENSIC NURSES	35745	02/01/2023	77115	PHLEBOTOMY SVCS		$328.62
		02/01/2023	77116	PHLEBOTOMY SVCS		
	35803	02/08/2023	77142	PHLEBOTOMY SVCS		$66.85
	35899	02/15/2023	77183	PHLEBOTOMY SVCS		$66.85
	35960	02/22/2023	77226	PHLEBOTOMY SVCS		$2,479.52
		02/22/2023	77237	PHLEBOTOMY SVCS		
		02/22/2023	77208	PHLEBOTOMY SVCS		
Remit to: LA QUINTA, CA					FYTD:	$21,276.43
AMTECH ELEVATOR SERVICES	35746	02/01/2023	151401032578	ELEVATOR ROUTINE MAINT.-CITY HALL-JANUARY 2023		$295.00
		02/01/2023	151401032579	ELEVATOR ROUTINE MAINT.-EOC-JANUARY 2023		
	35900	02/15/2023	151400993850	ELEVATOR ROUTINE MAINT.-CITY HALL-DECEMBER 2022		$295.00
		02/15/2023	151400993851	ELEVATOR ROUTINE MAINT.-EOC-DECEMBER 2022		
Remit to: PASADENA, CA					FYTD:	$11,373.19
ANGULO, GUADALUPE	35804	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
ARIA MANAGEMENT LLC	35961	02/22/2023	FEB 2023 RECOVER	OP EXP, INS, & PROP TAX RECOVERIES FOR 2022		$19,716.14
Remit to: YORBA LINDA, CA					FYTD:	$117,422.46
ATLANTA DRONE GROUP, INC. DBA SKYFIRE CONSULTING	35901	02/15/2023	2531	TACTICAL BVLOS WAIVER APPLICATION FOR THE FAA		$1,500.00
Remit to: MARIETTA, GA					FYTD:	$1,500.00
AVELAR, CONNIE	35805	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
BANAGUDOS, MATHEW KELLY	35806	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
BARGAINS LIQUIDATORS	244916	02/01/2023	BL#38553-YR2023	REFUND OF OVERPAYMENT FOR BL#38553		$65.00
Remit to: MORENO VALLEY, CA					FYTD:	$65.00
BIO-TOX LABORATORIES, INC.	244888	02/01/2023	43850	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		$17,237.19
		02/01/2023	43903	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		
		02/01/2023	43851	FORENSIC TOXICOLOGY TESTING SVCS FOR PD		
Remit to: RIVERSIDE, CA					FYTD:	$75,057.10
BLANKENSHIP, MELYSSA	35807	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
BOX SPRINGS MUTUAL WATER COMPANY	244889	02/01/2023	195-5 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	$396.70
		02/01/2023	1085-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	1087-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	80-4 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	1088-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	189-13 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	721-1 1/24/23	WATER USAGE-TOWNGATE-JANUARY 2023	
		02/01/2023	45-4 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	36-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	204-9 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	1084-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	1086-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
		02/01/2023	331-1 1/24/23	WATER ASSESSMENT ON VACANT LOTS OWNED BY THE HOUSING AUTHORITY	
Remit to: MORENO VALLEY, CA				FYTD:	$3,615.47
BOY SCOUTS OF AMERICA	244968	02/08/2023	2003059 2003060	DEPOSIT REFUND/ACCOUNT CREDIT REFUND- CONFERENCE & REC CTR.	$1,048.20
Remit to: REDLANDS, CA				FYTD:	$1,048.20

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
BRAUN BLAISING SMITH WYNNE, P.C.	35750	02/01/2023	20931	LEGAL SERVICES-MV UTILITY-DECEMBER 2022		$160.81
	35963	02/22/2023	20979	LEGAL SERVICES-MV UTILITY-JANUARY 2023		$504.08
Remit to: SACRAMENTO, CA					FYTD:	$9,148.37
BRITO, MARIANA	35964	02/22/2023	FEBRUARY 2023	MOVAL LEARNS PROGRAM STIPEND-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
C & L REFRIGERATION CORPORATION	244917	02/01/2023	BL#25578-YR2023	REFUND OF OVERPAYMENT FOR BL#25578		$85.13
Remit to: BREA, CA					FYTD:	$85.13
C.A.C.E.O./CAL ASSO OF CODE ENFORCEMENT	244947	02/08/2023	200022055	AVERT COURSE 8.11.2022-HERNAN LOPEZ		$390.00
		02/08/2023	200022059	AVERT COURSE 8.11.2022-ROBERTO LUERA		
		02/08/2023	200022051	AVERT COURSE 8.11.2022-ROBERT ALVAREZ		
		02/08/2023	200022057	AVERT COURSE 8.11.2022-LANEE PADILLA		
		02/08/2023	200022056	AVERT COURSE 8.11.2022-JORGE RUVALCABA		
		02/08/2023	200022058	AVERT COURSE 8.11.2022-PAMELA CHAFFIN		
Remit to: SACRAMENTO, CA					FYTD:	$390.00
CABRERA, RAVEN	35809	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
CABRERA, ULISES	245007	02/15/2023	11/29 - 12/3/22	REIMBURSEMENT TRANSPORTATION & PARKING COSTS DURING B.H. NEW MAYORS PROGRAM		$326.32
Remit to: MORENO VALLEY, CA					FYTD:	$326.32

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley
Payment Register
For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CALHOUN, LEVI	245009	02/15/2023	R23-170943	ANIMAL SERVICES REFUND OUT OF AREA LICENSE		$15.00
Remit to: SAN JACINTO, CA					FYTD:	$15.00
CALIFORNIA ASSOCIATION OF CODE ENFORCEMENT OFFICER	244890	02/01/2023	300017867	PROFESSIONAL MEMBERSHIP DUES-12 MEMBERS-CODE-2023		$1,200.00
	244988	02/15/2023	200023971	WEBINAR 2.7.2023 - ARIEL MUNOZ		$440.00
		02/15/2023	200024013	WEBINAR 2.7.2023 - ALEJANDRO MERAZ		
		02/15/2023	200023958	WEBINAR 2.7.2023 - ROBERTO LUERA		
		02/15/2023	200023970	WEBINAR 2.7.2023 - PAMELA CHAFFIN		
		02/15/2023	200023962	WEBINAR 2.7.2023 - RAMON ZAMUDIO		
		02/15/2023	200023968	WEBINAR 2.7.2023 - HERNAN LOPEZ		
		02/15/2023	200024039	WEBINAR 2.7.2023 - JORGE RUVALCABA		
		02/15/2023	200024041	WEBINAR 2.7.2023 - DAVID JOUZI		
		02/15/2023	200024051	WEBINAR 2.7.2023 - ROBERT ALVAREZ		
		02/15/2023	200024050	WEBINAR 2.7.2023 - DOUG GRIFFITH		
		02/15/2023	200024016	WEBINAR 2.7.2023 - ROSA MORALES		
Remit to: SACRAMENTO, CA					FYTD:	$1,640.00
CALIFORNIA CONTRACT CITIES ASSOCIATION	244989	02/15/2023	3534	MEMBERSHIP DUES FOR FY 22/23		$3,000.00
	245029	02/22/2023	3228	MEMBERSHIP DUES FOR FY 21/22		$5,500.00
Remit to: CERRITOS, CA					FYTD:	$8,500.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CALIFORNIA NEWSPAPERS PARTNERSHIP	244949	02/08/2023	238423DF-0032	PUBLIC HEARING NOTICE ADVERTISING-DIR HEARING NTC-PEN22-0108		$980.84
		02/08/2023	238423DF-0029	PUBLIC HEARING NOTICE ADVERTISING-GREEN MED APPEAL/PEN20-0077		
	244990	02/15/2023	8AA96E8D-0008	PARK REHAB & REFURB. PROGRAM		$995.33
		02/15/2023	8AA96E8D-0007	JUAN BAUTISTA TRAIL ATP 4		
Remit to: WILLOUGHBY, OH					FYTD:	$35,773.55
CAMARILLO, CHRISTIAN	245010	02/15/2023	R23-170562	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: OXNARD, CA					FYTD:	$75.00
CAMERON-DANIEL, P.C.	35965	02/22/2023	1380	LEGAL SERVICES-MV UTILITY-JANUARY 2023		$1,430.00
Remit to: SEBASTOPOL, CA					FYTD:	$40,040.00
CARRILLO, ARACELI	35810	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
CART-AWAY CONCRETE SYSTEM, INC	35902	02/15/2023	2207139	DISCHARGE CHUTE & ACCESSORIES FOR CONCRETE MIXING TRAILER		$1,457.48
Remit to: MCMINNVILLE, OR					FYTD:	$64,217.48
CERVANTES, JENNIFER	244918	02/01/2023	R23-170565	ANIMAL SERVICES REFUND ADOPTION FEES		$47.00
Remit to: MORENO VALLEY, CA					FYTD:	$47.00
CHACON, CARLOS	245052	02/22/2023	R22-168825	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$75.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CHARLES ABBOTT ASSOCIATES, INC	35903	02/15/2023	65190	PLAN CHECK SVCS-HIGHLAND FAIRVIEW/WLC-DECEMBER 2022		$23,393.00
Remit to: MISSION VIEJO, CA					FYTD:	$376,848.50
CHARTER COMMUNICATIONS HOLDINGS, LLC	35811	02/08/2023	0007991011523	CABLE - MONTHLY SERVICE CHARGES CITYWIDE/JAN 2022		$2,807.23
	35904	02/15/2023	091922301020123	FIBER INTERNET ACCESS SERVICES - FEB. 2023		$844.00
Remit to: CITY OF INDUSTRY, CA					FYTD:	$16,384.37
CHAVEZ, KIMBERLY	244919	02/01/2023	MVA020055453	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: LA HABRA, CA					FYTD:	$57.50
CHRIS ALAN VOGT DBA CAV CONSULTING	35967	02/22/2023	21048	SENIOR ENGINEER CONSULTING SERVICES (LDD)-JANUARY 2023		$7,717.50
Remit to: RIVERSIDE, CA					FYTD:	$301,244.75
CHRIS BALASINSKI DBA REF UNION	35753	02/01/2023	PST23	REFEREES FOR PRE-SEASON TOURNAMENT AND WEEK 1 GAMES		$1,568.50
	35905	02/15/2023	MV23-2	REFEREES FOR YOUTH LEAGUE GAMES 1/21-2/04/23 & REF ASSIGNING FEE		$2,735.00
Remit to: NEWPORT BEACH, CA					FYTD:	$7,931.50
CHRISP COMPANY	35754	02/01/2023	23458-RET	IRONWOOD AVE & KITCHING ST_RET		$4,493.25
Remit to: FREMONT, CA					FYTD:	$89,865.00
CINTAS CORPORATION NO. 2	35755	02/01/2023	4144271395	UNIFORM RENTAL & LAUNDERING SRVS FY 22/23		$1,289.87
	35812	02/08/2023	4144986274	UNIFORM RENTAL & LAUNDERING SRVS FY 22/23		$1,266.85
Remit to: CINCINNATI, OH					FYTD:	$51,620.40

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CLARK, ADAM	35813	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
COATS, DAVID	35906	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$410.40
Remit to: MORENO VALLEY, CA					FYTD:	$3,340.20
COBOS, ROSANA	35814	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
CODE 5 GROUP, LLC	244950	02/08/2023	3607	ANNUAL TRACKING SVCS-MAR 2023 TO FEB 2024-POLICE DEPT		$3,000.00
Remit to: PHOENIX, AZ					FYTD:	$3,000.00
COLONIAL SUPPLEMENTAL INSURANCE	244951	02/08/2023	7133069-0201517	EMPLOYEE SUPPLEMENTAL INSURANCE		$6,187.91
Remit to: COLUMBIA, SC					FYTD:	$50,551.83
CONSTRUCTION INDUSTRY EDUCATION FOUNDATION	244969	02/08/2023	2002922 2002923	DEPOSIT REFUND/ACCOUNT CREDIT REFUND- CONFERENCE & REC CTR.		$1,217.20
Remit to: SACRAMENTO, CA					FYTD:	$1,217.20
COOLEY, DONNA	35815	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
CORODATA MEDIA STORAGE INC.	35969	02/22/2023	DS1304484	OFF-SITE MEDIA STORAGE-JANUARY 2023		$432.19
Remit to: LOS ANGELES, CA					FYTD:	$3,546.25
CORRIE, KEVIN	245008	02/15/2023	2/20 - 2/23/23	TRAVEL PER DIEM & MILEAGE-COMP. TOWER CLIMBER & RESCUE TRAINING		$316.40
Remit to: MORENO VALLEY, CA					FYTD:	$316.40

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CORTE LIMA, ROSA	245053	02/22/2023	R22-169316	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: ONTARIO, CA					FYTD:	$75.00
COSCO FIRE PROTECTION, INC.	244891	02/01/2023	1000599319	INITIAL REPLACEMENT OF WATERFLOW SWITCH 2211-0227-FIRE STATION 6		$1,718.00
	244952	02/08/2023	1000599798	FIRE SPRINKLER INSP REPAIRS-FIRE STATION 2		$15,600.37
		02/08/2023	1000600917	HYDRAULIC CALCULATION PLATES-FIRE STATION 2		
Remit to: BREA, CA					FYTD:	$146,451.49
COSTAR REALTY INFORMATION, INC	35970	02/22/2023	120242471	COMMERCIAL REAL ESTATE DATABASE SVC-FEBRUARY 2023		$1,621.00
Remit to: CHICAGO, IL					FYTD:	$14,589.00
COTANCHE, THOMAS	244920	02/01/2023	R23-170601	ANIMAL SERVICES REFUND LICENSE OVERPAY		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
COUNSELING TEAM, THE	245030	02/22/2023	85202	EMPLOYEE ASSISTANCE PROGRAM-JANUARY 2023		$1,835.00
Remit to: SAN BERNARDINO, CA					FYTD:	$14,344.00
COUNTS UNLIMITED, INC.	35816	02/08/2023	23048	TRAFFIC DATA COLLECTION		$150.00
	35971	02/22/2023	221116	TRAFFIC DATA COLLECTION		$150.00
Remit to: CORONA, CA					FYTD:	$6,060.00
COUNTY OF LOS ANGELES AUDITOR CONTROLLER	244992	02/15/2023	23ME0088	GSR KITS ANALYZED-POLICE DEPT		$1,844.00
Remit to: LOS ANGELES, CA					FYTD:	$3,688.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
COUNTY OF RIVERSIDE	244993	02/15/2023	3697	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 74		$280.00
		02/15/2023	3699	REGISTERED VOTERS CONFIRMATION-CFD NO. 2014-01/AMENDMENT NO. 74		
		02/15/2023	3700	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 59		
		02/15/2023	3701	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 76		
	244994	02/15/2023	23-24202	RECORDATION DOCUMENTS		$52.00
	245031	02/22/2023	PE0000000785	TRAFFIC MOTOR COMMUNICATIONS FOR PD 1/1-1/31/23		$2,174.76
	245032	02/22/2023	3706	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 66		$280.00
		02/22/2023	3707	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 70		
		02/22/2023	3708	REGISTERED VOTERS CONFIRMATION-CFD NO. 2021-01/AMENDMENT NO. 77		
		02/22/2023	3705	REGISTERED VOTERS CONFIRMATION-CFD NO. 2014-01/AMENDMENT NO. 76		
Remit to: RIVERSIDE, CA					FYTD:	$182,759.01
CPS HUMAN RESOURCE SERVICES	244953	02/08/2023	0008539	CONSULTING SVCS-HR		$358.75
Remit to: LOS ANGELES, CA					FYTD:	$11,402.50
CRIME SCENE STERI-CLEAN, LLC	35756	02/01/2023	43343	BIO HAZARD REMOVAL SERVICE		$850.00
	35908	02/15/2023	43387	BIO HAZARD REMOVAL SERVICE		$1,050.00
		02/15/2023	43378	BIO HAZARD REMOVAL SERVICE		
Remit to: RANCHO CUCAMONGA, CA					FYTD:	$18,800.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
CROWN CASTLE FIBER LLC	35972	02/22/2023	1281511	INTERNET & DATA SVCS 02/01/23-02/28/23		$2,518.75
		02/22/2023	1269208	INTERNET & DATA SVCS 01/01/23-01/31/23		
Remit to: HOUSTON, TX					FYTD:	$10,056.25
CWE CORP.	35818	02/08/2023	22591	PLAN CHECK SVCS-PWQMP-NOVEMBER 2022		$4,250.50
Remit to: FULLERTON, CA					FYTD:	$8,757.50
DAART ENGINEERING COMPANY INC.	244970	02/08/2023	FSS23-0001	REFUND DUP. PAYMENT- FEES WERE PAID UNDER FIRE PERMIT FSS22-0313		$1,159.00
Remit to: RIVERSIDE, CA					FYTD:	$1,159.00
DAMORE, ANGELICA	245011	02/15/2023	MVA040037311	REFUND PARKING CITATION FEE - DISMISSED		$287.00
	245012	02/15/2023	MVA010024656	REFUND PARKING CITATION FEE - DISMISSED		$287.00
Remit to: RIDGECREST, CA					FYTD:	$574.00
DATA TICKET, INC.	35757	02/01/2023	1222M&S	ANNUAL MAINT/LICENSE FEES-CODE-DECEMBER 2022		$19,474.88
		02/01/2023	146977HH	PARKING HANDHELD DEVICES LEASE-AIR TIME-CODE-DECEMBER 2022		
		02/01/2023	147240	ADMIN CITATION PROCESSING-CODE-DECEMBER 2022		
		02/01/2023	147252	COURTESY NOTICES-CODE-DECEMBER 2022		
		02/01/2023	146977	PARKING CITATION PROCESSING-CODE-DECEMBER 2022		
	35909	02/15/2023	147239	FRANCHISE TAX BOARD CITATIONS-BLDG & SFTY-DECEMBER 2022		$21.03
	35973	02/22/2023	148349	ADMIN CITATION PROCESSING-PD-JANUARY 2023		$202.00
Remit to: IRVINE, CA					FYTD:	$191,034.71
DAVID EVANS & ASSOCIATES, INC.	35910	02/15/2023	523888	SR60/MORENO BEACH PH 2		$22,768.76
Remit to: PASADENA, CA					FYTD:	$33,014.26

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
DEL POZO, LESLIE	35819	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
DELTA DENTAL OF CALIFORNIA	35820	02/08/2023	BE005352445	EMPLOYEE DENTAL INSURANCE-PPO		$17,086.69
	35821	02/08/2023	BE005353187	EMPLOYEE DENTAL INSURANCE-HMO		$3,667.48
Remit to: LOS ANGELES, CA					FYTD:	$155,255.73
DEPARTMENT OF ENVIRONMENTAL HEALTH	244892	02/01/2023	OCT-DEC 2022	VECTOR CONTROL SERVICES-CODE		$5,160.91
	245033	02/22/2023	IN0469627	ENVIRONMENTAL HEALTH PERMIT-BETHUNE PARK		$156.00
Remit to: RIVERSIDE, CA					FYTD:	$18,674.68
DIAMOND ENVIRONMENTAL SERVICES, LP	244954	02/08/2023	0004437316	PORTABLE RESTROOM RENTAL-POLICE DEPT		$347.14
		02/08/2023	0004425936	DAMAGED RESTROOM EQUIP-MISSING SINK ON TRLR UNIT-MAINT & OPS		
Remit to: SAN MARCOS, CA					FYTD:	$26,768.16
DIGITAL TELECOMMUNICATIONS CORP.	35974	02/22/2023	46807	SOFTWARE ASSURANCE/MAINTENANCE-11/29/22-12/28/22		$1,395.00
		02/22/2023	47030	SOFTWARE ASSURANCE/MAINTENANCE-12/29/22-01/28/23		
		02/22/2023	46518	SOFTWARE ASSURANCE/MAINTENANCE-10/29/22-11/28/22		
Remit to: SANTA CLARITA, CA					FYTD:	$30,802.00
DISH DBS CORPORATION	244995	02/15/2023	86557282/FEB23	SATELLITE TV-FIRE STATION 99-1/31-2/28/23		$151.41
Remit to: PALATINE, IL					FYTD:	$1,186.18
DIZON, WILLIAM	244921	02/01/2023	MVA020057127	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: CHULA VISTA, CA					FYTD:	$57.50

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
DUNN EDWARDS CORPORATION	244922	02/01/2023	BL#25720-YR2023	REFUND OF OVERPAYMENT FOR BL#25720		$61.00
Remit to: CITY OF COMMERCE, CA					FYTD:	$61.00
E R BLOCK & CO INC	244923	02/01/2023	BL#02319-YR2023	REFUND OF OVERPAYMENT FOR BL#02319		$77.00
Remit to: YUCAIPA, CA					FYTD:	$77.00
E.R. BLOCK PLUMBING & HEATING, INC.	35911	02/15/2023	138566	BACKFLOW DEVICE TEST-FIRE STATION 2		$150.00
		02/15/2023	138580	BACKFLOW DEVICE TEST-EMERGENCY OPS CENTER		
Remit to: RIVERSIDE, CA					FYTD:	$23,292.95
EASTERN MUNICIPAL WATER DISTRICT	244893	02/01/2023	JAN-23 2/1/23	WATER CHARGES		$11,181.80
Remit to: LOS ANGELES, CA					FYTD:	$1,463,705.69
EC & AM ASSOCIATES, INC. DBA GK & ASSOCIATES	35975	02/22/2023	23-007	CITYWIDE PVT REHAB FY 21/22		$15,992.90
Remit to: DIAMOND BAR, CA					FYTD:	$260,502.23
ELKINS, DEBORAH	35912	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - ADAPTIVE ZUMBA CLASS		$52.80
Remit to: MORENO VALLEY, CA					FYTD:	$184.80
EMPIRE MOWER	245035	02/22/2023	25537	TREE TRIMMING EQUIPMENT PARTS		$96.98
Remit to: MORENO VALLEY, CA					FYTD:	$2,599.04

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ENCO UTILITY SERVICES MORENO VALLEY LLC	35759	02/01/2023	INV57851	SOLAR SYSTEM INSPECTION		$1,320.00
		02/01/2023	INV57849	SOLAR SYSTEM INSPECTION		
		02/01/2023	INV57850	SOLAR SYSTEM INSPECTION		
		02/01/2023	INV57812	SOLAR SYSTEM INSPECTION		
		02/01/2023	INV57813	SOLAR SYSTEM INSPECTION		
	35822	02/08/2023	INV57924	SOLAR SYSTEM INSPECTION		$1,056.00
		02/08/2023	INV57862	SOLAR SYSTEM INSPECTION		
		02/08/2023	INV57923	SOLAR SYSTEM INSPECTION		
		02/08/2023	INV57925	SOLAR SYSTEM INSPECTION		
Remit to: ANAHEIM, CA					FYTD:	$6,301,120.41
ESTRADA, CHRISTOPHER ANGEL	35823	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
EVEXIA HEALTH SERVICES	245054	02/22/2023	BFC22-0235	REFUND PLAN CHECK FEES-DUPLICATE APPLICATION-24941 DRACAEA		$1,573.00
Remit to: POMONA, CA					FYTD:	$1,573.00
EXCLUSIVE TOWING	244955	02/08/2023	23-19317	EVIDENCE VEHICLE TOWING-POLICE DEPT		$562.00
		02/08/2023	23-19296	EVIDENCE VEHICLE TOWING-POLICE DEPT		
Remit to: RIVERSIDE, CA					FYTD:	$6,148.75
FAIR HOUSING COUNCIL OF RIVERSIDE COUNTY, INC.	35977	02/22/2023	NOV-22 (LT)	LANDLORD/TENANT MEDIATION SVCS-CDBG		$11,750.23
		02/22/2023	DEC-22 (LT)	LANDLORD/TENANT MEDIATION SVCS-CDBG		
Remit to: RIVERSIDE, CA					FYTD:	$47,640.18

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
FAVELACHAVEZ, OSCAR	244924	02/01/2023	MV102532	REFUND PARKING CITATION FEE - DISMISSED		$41.00
Remit to: ONTARIO, CA					FYTD:	$41.00
FERRELLGAS LP	244894	02/01/2023	2030837134	PROPANE REFILL-FIRE STATION 6		$655.72
Remit to: DENVER, CO					FYTD:	$7,148.37
FH II LLC	244971	02/08/2023	TM 36882	REIMBURSEMENT FOR ELECTRIC INFRASTRUCTURE INSTALLED-BRODIAEA AVE		$17,618.72
Remit to: ONTARIO, CA					FYTD:	$103,177.32
FLORES BARRETO, LIZANDRO	35824	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
FLORES, TATIANA	245014	02/15/2023	MVA050031077	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: MORENO VALLEY, CA					FYTD:	$57.50
FORTAJADA, CYNTHIA	245055	02/22/2023	MVA050030922	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: BEAUMONT, CA					FYTD:	$57.50
FOWLER, EVELYN	245056	02/22/2023	MVA020026734	REFUND PARKING CITATION FEE - DISMISSED		$79.41
Remit to: ENCINO, CA					FYTD:	$79.41
FRANCE PUBLICATIONS, INC. DBA FRANCE MEDIA, INC	35825	02/08/2023	2023-51637	FULL PAGE AD-SHOPPING CTR BUSINESS-JAN 2023 ISSUE		$3,450.00
Remit to: ATLANTA, GA					FYTD:	$23,745.00
FRONTIER COMMUNICATIONS	245036	02/22/2023	062221-5/FEB23	COMMUNICATION SVCS-01/28/23-02/27/23		$1,190.00
Remit to: CINCINNATI, OH					FYTD:	$16,872.13

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
G R C PLUMBING	244925	02/01/2023	BL#40252-YR2023	REFUND OF OVERPAYMENT FOR BL#40252		$72.77
Remit to: BAKERSFIELD, CA					FYTD:	$72.77
G/M BUSINESS INTERIORS, INC.	35826	02/08/2023	0279773-IN	TASK SEATING-LAND DEVELOPMENT		$619.62
	35978	02/22/2023	0282254-IN	HIGH BACK TASK CHAIR-ANIMAL SERVICES		$813.80
Remit to: RIVERSIDE, CA					FYTD:	$59,783.71
G3 QUALITY INC	35760	02/01/2023	13135	PVT REHAB (CDBG FY 22/23)		$9,910.00
	35827	02/08/2023	13237	PVT REHAB (CDBG FY 22/23)		$9,752.00
Remit to: CERRITOS, CA					FYTD:	$30,328.25
GALLS INC., INLAND UNIFORM	35915	02/15/2023	OR22674031	UNIFORMS FOR NEW HIRES-CODE (MINUS CREDIT FOR JACKETS RETURNED)		$1,009.73
	35979	02/22/2023	OR22822322	LEATHER GARRISON BELT FOR CODE ENFORCEMENT		$514.39
		02/22/2023	OR22822359	SHIELD PERF SOFTSHELLS AND BELT FOR CODE ENFORCEMENT		
Remit to: CHICAGO, IL					FYTD:	$6,770.53
GALVEZ-ARELLANO, ISAAC	35828	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
GARCIA, JAKELINE	35829	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
GARCIA, MELISSA	35830	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
GET AIR MORENO VALLEY	244926	02/01/2023	BL#39935-YR2023	REFUND OF OVERPAYMENT FOR BL#39935		$490.33
Remit to: MORENO VALLEY, CA					FYTD:	$490.33

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
GLOBAL POWER GROUP, INC.	244895	02/01/2023	86395	GENERATOR FUEL REPLACEMENT-ANIMAL SHELTER		$4,030.00
Remit to: LAKESIDE, CA					FYTD:	$33,578.26
GOLDEN STAR TECHNOLOGY, DBA: GST	244896	02/01/2023	INV84340	GETAC TABLET-TRAFFIC DIV-POLICE DEPT		$2,531.38
Remit to: CERRITOS, CA					FYTD:	$23,534.19
GONZALEZ, ERIN	244987	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$250.00
GONZALEZ, ROSA	245057	02/22/2023	R23-171072	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: FORT IRWIN, CA					FYTD:	$75.00
GRID ALTERNATIVES	35917	02/15/2023	INV 1 ARI0009382	SOLAR ENERGY ASSISTANCE PROGRAM-SEPT 2022 TO OCT 2022		$16,862.98
	35980	02/22/2023	INV 2 ARI0009479	SOLAR ENERGY ASSISTANCE PROGRAM-NOV 2022		$10,450.01
Remit to: RIVERSIDE, CA					FYTD:	$107,227.95
GUTIERREZ, ALEJANDRA	35832	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
GUZMAN, BELINDA	244927	02/01/2023	MV102526	REFUND PARKING CITATION FEE - DISMISSED		$32.50
Remit to: MORENO VALLEY, CA					FYTD:	$32.50
GUZMAN, BRENDA	245015	02/15/2023	MVP96169	REFUND PARKING CITATION FEE - DISMISSED		$407.50
Remit to: MORENO VALLEY, CA					FYTD:	$407.50
HALL, PAULA	244973	02/08/2023	R22-169436	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: FRESNO, CA					FYTD:	$95.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
HERTZ PROCESSING SERVICES	244928	02/01/2023	MVA020056225	REFUND PARKING CITATION FEE - DUPLICATE PAYMENT		$57.50
Remit to: MESA, AZ					FYTD:	$57.50
HINDERLITER DE LLAMAS & ASSOCIATES	244897	02/01/2023	SIN024678	CANNABIS MANAGEMENT PROGRAM-DECEMBER 2022		$15,000.00
Remit to: BREA, CA					FYTD:	$53,843.29
HLP, INC.	35833	02/08/2023	21921	CHAMELEON/CMS SOFTWARE ANNUAL SUPPORT & MAINT		$21,424.80
	35918	02/15/2023	189536	WEB LICENSE MONTHLY SVC FEE		$83.30
Remit to: LITTLETON, CO					FYTD:	$32,308.15
HR GREEN PACIFIC INC.	35762	02/01/2023	159785	ON-CALL TRAFFIC ENGINEERING SERVICES-DECEMBER 2022		$19,790.35
	35834	02/08/2023	158909	PLAN CHECK SVCS-TR37643/PEN18-0065-LD		$2,557.50
	35919	02/15/2023	158991A	PLAN CHECK SVCS-TR37643/PEN18-0065-NOVEMBER 2022-LD		$3,366.25
		02/15/2023	158992	PLAN CHECK SVCS-PEN21-0181-NOVEMBER 2022		
		02/15/2023	159258	PLAN CHECK SVCS-PEN21-0181-DECEMBER 2022		
		02/15/2023	158911	PLAN CHECK SVCS-PEN21-0181-OCTOBER 2022		
Remit to: DES MOINES, IA					FYTD:	$512,835.30
HUIPIO, DENISE	244929	02/01/2023	MVA010027279	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: SAN BERNARDINO, CA					FYTD:	$57.50
HUNTER CONSULTING INC. DBA HCI ENVIRONMENTAL & ENG	35763	02/01/2023	35285	WASH RACK HAZARDOUS WASTE REMOVAL-CITY YARD		$2,728.66
Remit to: CORONA, CA					FYTD:	$2,728.66
HURTADO, MIREYA	244974	02/08/2023	R22-169270	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
IMMI TAX SERVICES, LLC	35764	02/01/2023	2527	BACKGROUND CHECKS		$234.00
	35981	02/22/2023	2528	BACKGROUND CHECKS		$168.00
Remit to: MORENO VALLEY, CA					FYTD:	$3,002.00
INTERNATIONAL E-Z UP, INC.	245067	02/22/2023	INV0498094	CANOPY COVERS & BANNERS-OEM/EOC		$3,631.18
Remit to: NORCO, CA					FYTD:	$3,631.18
INTERWEST CONSULTING GROUP, INC.	35835	02/08/2023	84116	SENIOR ENGINEER CONSULTING SERVICES (LDD)-NOVEMBER 2022		$7,245.00
		02/08/2023	84115	PLAN CHECK SVCS-RIVARD MAP-NOV 2022		
		02/08/2023	84118	PLAN CHECK SVCS-PM38082/PEN21-0079-NOVEMBER 2022		
		02/08/2023	84114	PLAN CHECK SVCS-PEN21-0133/ATWOOD FIVE-PLEX DEV-NOV 2022		
	35920	02/15/2023	84117	PLAN CHECK SVCS-PM38325/TR32408/TR38123-NOVEMBER 2022		$5,810.00
Remit to: LOVELAND, CO					FYTD:	$81,900.25
JACKSON, ERICH	244930	02/01/2023	R22-169158	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: LAGUNA HILLS, CA					FYTD:	$95.00
JIMENEZ, VANESSA	35836	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
JOHNSON , TRACY	35921	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$410.40
Remit to: MORENO VALLEY, CA					FYTD:	$3,328.80
JTB SUPPLY CO., INC.	35765	02/01/2023	111468	TRAFFIC SIGNAL MAINT SUPPLIES		$1,298.18
	35837	02/08/2023	111494	TRAFFIC SIGNAL MAINT SUPPLIES		$1,828.52
Remit to: ORANGE, CA					FYTD:	$37,433.77

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
JUENGEL, JAIME	35982	02/22/2023	2/18 - 2/22/23	TRAVEL PER DIEM & MILEAGE-WESTERN VETERINARY ANNUAL CONFERENCE	$575.77
Remit to: MORENO VALLEY, CA				FYTD:	$575.77
K B HOME COASTAL INC	244975	02/08/2023	TRACT 36436	REIMB FOR ELECTRIC INFRASTRUCTURE INSTALL-BELLA CORTINA TR36436	$20,439.08
Remit to: WILDOMAR, CA				FYTD:	$20,439.08
KANE, ELIZABETH	245016	02/15/2023	R23-170683	ANIMAL SERVICES REFUND S/N AND RAB DEP	$95.00
Remit to: TWENTYNINE PALMS, CA				FYTD:	$95.00
KAPLAN, LEWIS	245058	02/22/2023	PEN21-0025	REFUND 40% OF FEES PAID ON CLOSED APPLICATION-PENSKE TRUCK LSING	$1,343.60
Remit to: SCOTTSDALE, AZ				FYTD:	$1,343.60
KAREN S MASSEY RENTAL PROPERTY	244931	02/01/2023	BL#31739-YR2023	REFUND OF OVERPAYMENT FOR BL#31739	$149.25
Remit to: RIVERSIDE, CA				FYTD:	$149.25
KEENEY, BRIAN	244912	02/01/2023	2/6 - 2/9/23	TRAVEL PER DIEM - CRIA INTL CRIMINAL INVESTIGATOR TRAINING CONF.	$251.63
Remit to: MORENO VALLEY, CA				FYTD:	$428.88
KELLY, SCHAKEEVIA	35838	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023	$250.00
Remit to: MORENO VALLEY, CA				FYTD:	$1,250.00
KNOWBE4, INC.	35983	02/22/2023	INV237846	SECURITY AWARENESS TRAINING SUBSCRIPTION-05/22/23 TO 05/21/24	$6,654.83
Remit to: CLEARWATER, FL				FYTD:	$7,315.40

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
KOEPFLI, TRISTAN	35922	02/15/2023	PO-MVSD 004	PAINT TRAFFIC MOTOR HELMET		$325.00
Remit to: TEMECULA, CA					FYTD:	$1,025.00
KONICA MINOLTA BUSINESS SOLUTIONS, USA	35839	02/08/2023	41657331	COPIER LEASE-CITY WIDE-JANUARY 2023		$10,026.10
	35984	02/22/2023	9009133297	COPIER USAGE-PD LEASE-FEBRUARY 2023		$124.19
Remit to: PASADENA, CA					FYTD:	$81,422.04
KTU+A	35923	02/15/2023	34630	PARKS MASTER PLAN PROJECT SERVICES-DECEMBER 2022		$1,526.25
Remit to: SAN DIEGO, CA					FYTD:	$3,475.00
KUSTOM SIGNALS, INC.	244898	02/01/2023	599794	RADAR/LASER MAINT & REPAIR-POLICE DEPT		$287.00
	244956	02/08/2023	600251	RADAR/LASER MAINT & REPAIR-POLICE DEPT		$316.61
	245037	02/22/2023	600515	RADAR/LASER MAINT & REPAIR-POLICE DEPT		$1,112.13
		02/22/2023	600569	RADAR/LASER MAINT & REPAIR-POLICE DEPT		
Remit to: CHICAGO, IL					FYTD:	$2,610.72
LARAJARA, ANDREA	35840	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
LEANOS, VERONICA	244976	02/08/2023	R22-168827	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$75.00
LEE, DAJANETTE	245017	02/15/2023	R23-171074	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: INDIO, CA					FYTD:	$95.00
LEIGHTON & ASSOCIATE, INC	244932	02/01/2023	BL#17621-YR2023	REFUND OF OVERPAYMENT FOR BL#17621		$89.23
Remit to: IRVINE, CA					FYTD:	$89.23

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
LEWIS, CHENIQUE	244977	02/08/2023	C23690	REFUND - CITATION DISMISSED		$2,000.00
Remit to: MORENO VALLEY, CA					FYTD:	$2,000.00
LEXISNEXIS PRACTICE MANAGEMENT	35924	02/15/2023	3094309806	LEGAL RESEARCH TOOLS-JANUARY 2023		$883.20
Remit to: CHICAGO, IL					FYTD:	$7,065.60
LIBRARY SYSTEMS & SERVICES, LLC	35925	02/15/2023	INV6932	LSTA COPYCAT GRANT - DEC. 2022		$2,184.11
		02/15/2023	INV6933	LIBRARY GRANT MATERIALS BILLING-ZIP BOOKS/DEC. 2022		
		02/15/2023	INV6760	LIBRARY GRANT MATERIALS BILLING-ZIP BOOKS/NOV. 2022		
	35985	02/22/2023	INV7106	LIBRARY GRANT-ZIP BOOKS-JANUARY 2023		$6,440.97
		02/22/2023	INV7107	LIBRARY GRANT-CLLS-JANUARY 2023		
		02/22/2023	INV7105	LIBRARY GRANT-COPY CAT-JANUARY 2023		
Remit to: ROCKVILLE, MD					FYTD:	$1,460,776.55
LIEBERT, CASSIDY, WHITMORE	244899	02/01/2023	232732	LEGAL SERVICES-HUMAN RESOURCES		$720.50
Remit to: LOS ANGELES, CA					FYTD:	$55,258.03
LIM, FRANK AND ELEANOR	245059	02/22/2023	MV104992	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: WALNUT, CA					FYTD:	$57.50
LONDON, JOHN	35841	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
LONDON, KORII	35842	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
LOPEZ, ALAN	35843	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
LOPEZ, JAYVELIN	245018	02/15/2023	MVA050031684	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: MORENO VALLEY, CA					FYTD:	$57.50
LOPEZ, JOANNA	35844	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
LOPEZ, JOHANNA	245019	02/15/2023	R23-171005	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: COLTON, CA					FYTD:	$95.00
LOPEZ, VICTORIA	35986	02/22/2023	FEBRUARY 2023	MOVAL LEARNS PROGRAM STIPEND-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
LUTHERAN SOCIAL SERVICES OF SOUTHERN CALIFORNIA	35987	02/22/2023	#1 / JULY 2022	HOMELESS PREVENTION PROGRAM - JULY 2022		$1,476.00
Remit to: SAN BERNARDINO, CA					FYTD:	$1,756.31
LYONS SECURITY SERVICE, INC.	35845	02/08/2023	30273	SECURITY GUARD SVCS-SENIOR CENTER-NOVEMBER 2022		$803.10
Remit to: ANAHEIM, CA					FYTD:	$224,893.79
MACK, TERRY	244933	02/01/2023	R22-169909	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$150.00
MAHONEY, KEVIN	244913	02/01/2023	2/6 - 2/9/23	TRAVEL PER DIEM - CRIA INTL CRIMINAL INVESTIGATOR TRAINING CONF.		$215.63
Remit to: MORENO VALLEY, CA					FYTD:	$215.63

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
MALORY, THOMAS	244978	02/08/2023	MVA050024760	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: NORTH LAS VEGAS, NV					FYTD:	$57.50
MANNING, SUMMER	244979	02/08/2023	2003055.047	REFUND- PICNIC SHELTER-TOWNGATE		$96.75
Remit to: RIVERSIDE, CA					FYTD:	$96.75
MARCH FIELD FOUNDATION	244900	02/01/2023	2023 SPONSORSHIP	SPONSORSHIP FOR 2023 MARB AIR SHOW - ONE STAR GENERAL LEVEL		$5,000.00
Remit to: RIVERSIDE, CA					FYTD:	$5,000.00
MARCH JOINT POWERS AUTHORITY	245039	02/22/2023	58475	GAS CHARGES-M.A.R.B. BUILDING 823-JAN. 2023		$353.41
		02/22/2023	58478	GAS CHARGES-M.A.R.B. BUILDING 938-JAN. 2023		
Remit to: RIVERSIDE, CA					FYTD:	$803.59
MARQUEZ, DAVID	35846	02/08/2023	1/18 -1/20/23	REIMBURSEMENT HOTEL/MEALS/TRANSP./PARKING COSTS-LCC COUNCIL CONF.		$855.11
Remit to: MORENO VALLEY, CA					FYTD:	$1,124.55
MARTEL, LENNIE	245020	02/15/2023	MVP94458	REFUND PARKING CITATION FEE - DISMISSED		$41.00
Remit to: MENIFEE, CA					FYTD:	$41.00
MARTINEZ, ISRAEL	35847	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
MARY CARLSON DBA TUCKER'S TAX SERVICE	244945	02/01/2023	4390	SERVICES REGARDING FORM 1098 FILINGS FOR CY 2022		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$75.00

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
MASSOUD, IBRAHIM	244980	02/08/2023	CK NO. 242650	REISSUE STALE-DATED CHECK FOR TOWNGATE COMM. CTR RENTAL REFUND	$209.60
Remit to: MORENO VALLEY, CA				FYTD:	$209.60
MCR INNOVATIONS, INC. DBA ADVANTAGE BUSINESS EQUIP	35848	02/08/2023	93708	WYCOM CHECK SIGNER SERVICE CONTRACT 2/16/23-2/16/24	$697.85
Remit to: CERRITOS, CA				FYTD:	$697.85
MCRAE, HARRIET	35849	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023	$250.00
Remit to: MORENO VALLEY, CA				FYTD:	$1,250.00
MENDOZA, JANET	245060	02/22/2023	R22-169530	ANIMAL SERVICES REFUND S/N DEPOSIT	$75.00
Remit to: RIVERSIDE, CA				FYTD:	$75.00
MENGISTU, YESHIALEM	35928	02/15/2023	JAN. 2023	MILEAGE REIMBURSEMENT - JANUARY 2023	$179.47
Remit to: MORENO VALLEY, CA				FYTD:	$1,217.90
MERCHANTS BUILDING MAINTENANCE, LLC.	35929	02/15/2023	718914	JAN 2023 SPECIAL CLEANINGS FOR EVENT RENTALS-TOWNGATE COMM. CTR.	$2,134.00
		02/15/2023	718912	JAN 2023 SPECIAL CLEANINGS FOR EVENT RENTALS-COTTONWOOD GOLF CTR	
		02/15/2023	718913	JAN 2023 SPECIAL CLEANINGS FOR EVENT RENTALS-SENIOR CENTER	
		02/15/2023	718900	JAN 2023 SPECIAL CLEANINGS FOR EVENT RENTALS-CONF. & REC. CENTER	
Remit to: MONTEREY PARK, CA				FYTD:	$585,835.67
MERLE, JORDAN	244914	02/01/2023	2/6 - 2/9/23	TRAVEL PER DIEM - CRIA INTL CRIMINAL INVESTIGATOR TRAINING CONF.	$215.63
Remit to: MORENO VALLEY, CA				FYTD:	$372.88

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
MICHAEL AZIZI RENTAL PROPERTY	244934	02/01/2023	BL#31008-YR2023	REFUND OF OVERPAYMENT FOR BL#31008		$96.75
Remit to: LOS ANGELES, CA					FYTD:	$96.75
MICHAEL BAKER INTERNATIONAL, INC	35767	02/01/2023	1168391	INDIAN ST CARDINAL BRIDGE PH 2		$633.38
Remit to: LOS ANGELES, CA					FYTD:	$25,216.95
MIRACLE RECREATION EQUIPMENT	244901	02/01/2023	852193	PLAYGROUND EQUIPMENT - WOODLAND PARK		$3,346.28
		02/01/2023	852192	PLAYGROUND EQUIPMENT - EL PORTRERO PARK		
		02/01/2023	852375	PLAYGROUND EQUIPMENT - FAIRWAY PARK		
Remit to: DALLAS, TX					FYTD:	$3,346.28
MISSION LINEN SUPPLY, INC.	35768	02/01/2023	518641273	LINEN RENTAL SERVICES		$65.10
	35991	02/22/2023	518726758	LINEN RENTAL SERVICES		$130.21
		02/22/2023	518684109	LINEN RENTAL SERVICES		
		02/22/2023	518747760	CREDIT FOR BLACK LINENS CHARGED ON INVOICE 518684109		
Remit to: SANTA BARBARA, CA					FYTD:	$2,397.68
MORENO VALLEY COMMUNITY VET CARE	35992	02/22/2023	JAN. 2023	VETERINARY SERVICES-MV ANIMAL SHELTER/JANUARY 2023		$11,061.02
Remit to: MORENO VALLEY, CA					FYTD:	$119,107.27
MORENO VALLEY DIAMOND GIRLS SOFTBALL ASSOCIATION	244996	02/15/2023	FEB 8, 2023	SPONSORSHIP - MVDGSA TEAM MAD BATTERS		$500.00
Remit to: MORENO VALLEY, CA					FYTD:	$2,200.00
MORENO VALLEY IMAGING	244935	02/01/2023	BL#28081-YR2023	REFUND OF OVERPAYMENT FOR BL#28081		$878.84
Remit to: LOS ANGELES, CA					FYTD:	$878.84

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
MORENO VALLEY UNIFIED SCHOOL DISTRICT	245021	02/15/2023	2003081.047	DEPOSIT REFUND- CONFERENCE & REC CTR.		$524.10
Remit to: MORENO VALLEY, CA					FYTD:	$36,908.20
MORENO, TONY NATHANIEL	35850	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
MORENO, VERONICA	35851	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
MORRIS, KEVIN	35852	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
MOTOPORT USA	245040	02/22/2023	151196	UNIFORM ITEMS FOR PD TRAFFIC OFFICERS		$4,080.52
Remit to: ESCONDIDO, CA					FYTD:	$4,080.52
MUNICIPAL EMERGENCY SERVICES INC.	35853	02/08/2023	IN1820109	1 SEEK FIREPRO X CAMERA		$555.67
Remit to: SANDY HOOK, CT					FYTD:	$2,863.72
MUSICSTAR	244997	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES-ANIME ART & ROBLOX STUDIO LAB CLASSES		$192.00
Remit to: RIVERSIDE, CA					FYTD:	$498.60
MV PONY	244936	02/01/2023	2003040.047	DEPOSIT REFUND- CONFERENCE & REC CTR.		$104.80
Remit to: MORENO VALLEY, CA					FYTD:	$104.80

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
MWI ANIMAL HEALTH	244957	02/08/2023	45549064	ANIMAL MEDICAL SUPPLIES		$1,101.54
		02/08/2023	44577899	ANIMAL MEDICAL SUPPLIES		
	244998	02/15/2023	45786886	ANIMAL MEDICAL SUPPLIES		$106.87
	245041	02/22/2023	45920186	ANIMAL MEDICAL SUPPLIES		$7.59
Remit to: LOS ANGELES, CA					FYTD:	$7,956.33
NAFCO-INC. DBA PARKING ID	35993	02/22/2023	45683	ZIP BAG CITATION HOLDERS FOR CODE/PARKING		$1,485.63
Remit to: DIAMOND BAR, CA					FYTD:	$1,485.63
NAMEKATA, JAMES	35930	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - SHITO-RYU KARATE CLASSES		$296.40
Remit to: RIVERSIDE, CA					FYTD:	$3,203.40
NANCE, JULIE	244981	02/08/2023	R23-170188	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: RIVERSIDE, CA					FYTD:	$95.00
NATIONAL BUSINESS FURNITURE	35994	02/22/2023	MK589656-TDQ	2 RIGHT-RETURN DESKS FOR FS48 CAPTAIN'S OFFICE		$4,112.36
Remit to: MILWAUKEE, WI					FYTD:	$4,591.73
NAVARRO, CHRISTY	35855	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
NAVARRO, PASCUAL RUBEN	35856	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
NAVARRO, WENDY	244937	02/01/2023	2003029.047	CLEANING FEE REFUND TOWNGATE COMM CTR.		$105.00
Remit to: MORENO VALLEY, CA					FYTD:	$314.60

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
NBS GOVERNMENT FINANCE GROUP	35931	02/15/2023	202301-1070	BOUNDARY MAP PREPARATION		$2,000.00
Remit to: TEMECULA, CA					FYTD:	$24,400.00
NGUYEN, CLEMENT BA DUONG	35932	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - VOVINAM MARTIAL ARTS CLASSES		$624.00
Remit to: BEAUMONT, CA					FYTD:	$3,911.40
NICCOLI, JASON	35769	02/01/2023	12/6 - 12/7/22	REIMBURSEMENT TRAVEL PER DIEM & MILEAGE-GENERAL ORDER 95/128 RULES MTG.		$376.12
		02/01/2023	10/25 - 10/26/22	REIMBURSEMENT PER DIEM, MILEAGE, PARKING & TRANSP. COSTS-CMUA TRAINING		
Remit to: MORENO VALLEY, CA					FYTD:	$376.12
NV5, INC.	35770	02/01/2023	307373	ON-CALL CONSTRUCTION INSPECTION SERVICES - NOV. 2022		$13,935.32
	35995	02/22/2023	314523	ON-CALL CONSTRUCTION INSPECTION SERVICES - DEC. 2022		$20,327.64
Remit to: HOLLYWOOD, FL					FYTD:	$221,126.75
OPERATION SAFEHOUSE, INC.	35996	02/22/2023	6 - (DEC. 2022)	CDBG SUBRECIPIENT PAYMENT-EMERGENCY SHELTER FOR YOUTH PROGRAM		$1,280.00
Remit to: RIVERSIDE, CA					FYTD:	$12,458.87
ORNELAS, MADISON	35857	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: RIVERSIDE, CA					FYTD:	$1,250.00
PACHECO, ROBERT	244938	02/01/2023	MVA010020942	REFUND PARKING CITATION FEE - DISMISSED		$100.00
Remit to: MORENO VALLEY, CA					FYTD:	$100.00
PACIFIC SAFETY CENTER	35933	02/15/2023	83674	HAZWOPER 4-HOUR REFRESHER TRAINING CLASSES 1/19/23		$1,795.00
Remit to: SAN DIEGO, CA					FYTD:	$1,795.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
PADILLA, ALEXIS	35858	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
PALOMINO, MELISSA	245022	02/15/2023	R23-170625	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00
PARK RANGERS ASSOCIATION OF CALIFORNIA	244999	02/15/2023	1.2023_DUES	MEMBERSHIP DUES-PARK RANGERS J. JOSEPH, C. GUZMAN, & M. GUNNELS		$150.00
Remit to: STEWARTS POINT, CA					FYTD:	$150.00
PARSONS TRANSPORTATION GROUP, INC.	35998	02/22/2023	2302A012	SR60/MORENO BEACH PH 2		$6,132.30
Remit to: IRVINE, CA					FYTD:	$28,196.78
PENA, ASHLEY	244939	02/01/2023	2003026.047	DEPOSIT REFUND-TOWNGATE COMM. CTR		$209.60
	245023	02/15/2023	2003077.047	SECURITY GUARD REFUND-TOWNGATE COMMUNITY CENTER RENTAL		$27.00
Remit to: MORENO VALLEY, CA					FYTD:	$236.60
PENINSULA PLASTICS LIMITED DBA NOVA PRODUCTS	244902	02/01/2023	8500056774	13-GALLON ORGANIC BINS		$1,949.50
Remit to: FORT ERIE, ON					FYTD:	$3,231.10
PEPE'S TOWING	35772	02/01/2023	109691	EVIDENCE TOWING FOR PD		$273.00
	35934	02/15/2023	109251	EVIDENCE TOWING FOR PD		$572.00
	35999	02/22/2023	105547	EVIDENCE TOWING FOR PD		$819.00
		02/22/2023	105546	EVIDENCE TOWING FOR PD		
Remit to: MORENO VALLEY, CA					FYTD:	$8,341.75

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
PERCEPTIVE ENTERPRISES, INC.	35773	02/01/2023	3814	PROFESSIONAL DBE/CPR CONSULTING SERVICES		$20,547.00
		02/01/2023	3813	PROFESSIONAL DBE/CPR CONSULTING SERVICES		
Remit to: LOS ANGELES, CA					FYTD:	$73,050.00
PIPES-JOYNER, STACY	245024	02/15/2023	R23-171056	ANIMAL SERVICES REFUND LICENSE OVERPAY		$20.00
Remit to: MORENO VALLEY, CA					FYTD:	$20.00
PREFERRED CORPORATE HOUSING	245025	02/15/2023	CK NO. 8590	REISSUE UNCLAIMED CHECK-M.V. UTILITY DEPOSIT REFUND		$100.89
Remit to: HOUSTON, TX					FYTD:	$100.89
PROFESSIONAL COMMUNICATIONS NETWORK PCN	245000	02/15/2023	221500417	LIVE ANSWERING SERVICE FOR ROTATIONAL TOW PROGRAM		$408.48
Remit to: RIVERSIDE, CA					FYTD:	$4,578.57
PROLOGIS	244940	02/01/2023	#1083 T&M	REFUND BALANCE IN T&M ACCOUNT-PROLOGIS KRAMERIA PROJECT COMPLETE		$7,103.75
Remit to: ONTARIO, CA					FYTD:	$7,103.75
PTS COMMUNICATIONS INC	35935	02/15/2023	2099142	PAY PHONE SERVICES-FEB. 2023		$128.28
	36000	02/22/2023	2100845	PAY PHONE SERVICES-MAR. 2023		$128.28
Remit to: SAN RAMON, CA					FYTD:	$1,282.80
QUEZADA, KATTYA	244982	02/08/2023	2003056.047	REFUND-PICNIC SHELTER-SANTIAGO PARK		$188.80
Remit to: MORENO VALLEY, CA					FYTD:	$188.80
RADAR SHOP, THE	244958	02/08/2023	14741	LASER & LIDAR UNITS RECERTIFICATION		$3,300.00
Remit to: WICHITA, KS					FYTD:	$3,300.00

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
RALLYS BURGERS & FRIES	244941	02/01/2023	BL#30051-YR2023	REFUND OF OVERPAYMENT FOR BL#30051		$120.00
Remit to: LA VERNE, CA					FYTD:	$120.00
RAMIREZ, NATALY	35859	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
RAMOS, ROBERTO	35937	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES-AMAZING MARTIAL ARTS & TAE KWON DO CLASSES		$1,384.60
Remit to: MORENO VALLEY, CA					FYTD:	$7,722.40
RANCHO VERDE HIGH SCHOOL	244983	02/08/2023	2003058 2003061	DEPOSIT REFUND/ACCOUNT CREDIT REFUND- CONFERENCE & REC CTR.		$792.20
Remit to: MORENO VALLEY, CA					FYTD:	$792.20
RE ASTORIA 2 LLC	35860	02/08/2023	2023_01_RE AST 2	RENEWABLE ENERGY-MV UTILITY-DECEMBER 2022		$15,812.95
	36001	02/22/2023	2023_02_RE AST 2	RENEWABLE ENERGY-MV UTILITY-JANUARY 2023		$15,898.14
Remit to: SAN FRANCISCO, CA					FYTD:	$319,875.68

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
READY REFRESH BY NESTLE	35774	02/01/2023	03A0035449180	BOTTLED WATER COOLER RENTAL-ARMADA ELEMENTARY/CHILD CARE	$4.29
		02/01/2023	03A0035449305	BOTTLED WATER COOLER RENTAL-CREEKSIDE ELEMENTARY/CHILD CARE	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
READY REFRESH BY NESTLE	35938	02/15/2023	03A6703658274	WATER DISPENSER UNIT RENTAL-MAIN LIBRARY	$863.44
		02/15/2023	03A6703657396	WATER DISPENSER UNIT RENTAL-ANIMAL SHELTER	
		02/15/2023	03A6703660057	WATER DISPENSER UNIT RENTAL-CITY YARD	
		02/15/2023	03A6703686058	WATER DISPENSER UNIT RENTAL-VAL VERDE (RED MAPLE) SITE	
		02/15/2023	03A6703686057	WATER DISPENSER UNIT RENTAL-EOC	
		02/15/2023	03A6703658271	WATER DISPENSER UNIT RENTAL-CITY YARD SANTIAGO OFFICE	
		02/15/2023	03A6703658237	WATER DISPENSER UNIT RENTAL-PUBLIC SAFETY BUILDING	
		02/15/2023	03A6703658235	WATER DISPENSER UNIT RENTAL-PUBLIC SAFETY BUILDING	
		02/15/2023	03A6703657413	WATER DISPENSER UNIT RENTAL-BERC	
		02/15/2023	03A6703660054	WATER DISPENSER UNIT RENTAL-CITY HALL COUNCIL CHAMBER	
		02/15/2023	03A6703657389	WATER DISPENSER UNIT RENTAL-FIRE STATION 99	
		02/15/2023	03A6703657388	WATER DISPENSER UNIT RENTAL-FIRE STATION 58	
		02/15/2023	03A6703657393	WATER DISPENSER UNIT RENTAL-ANIMAL SHELTER	
		02/15/2023	03A6703660056	WATER DISPENSER UNIT RENTAL-CITY HALL BREAKROOM	
		02/15/2023	03A6703657410	WATER DISPENSER UNIT RENTAL-ANNEX 1	
		02/15/2023	03A6706250063	WATER DISPENSER UNIT RENTAL-FIRE STATION 65	
		02/15/2023	03A6703660060	WATER DISPENSER UNIT RENTAL-RAINBOW RIDGE	
		02/15/2023	03A6703657399	WATER DISPENSER UNIT RENTAL-FIRE STATION 6	
		02/15/2023	03A6703657401	WATER DISPENSER UNIT RENTAL-SENIOR CENTER	
		02/15/2023	03A6703660049	WATER DISPENSER UNIT RENTAL-CITY HALL PW AREA	
		02/15/2023	03A6705245066	WATER DISPENSER UNIT RENTAL-PUBLIC SAFETY BUILDING	
		02/15/2023	03A6703657403	WATER DISPENSER UNIT RENTAL-FIRE STATION 48	
		02/15/2023	03A6703657407	WATER DISPENSER UNIT RENTAL-CRC	
		02/15/2023	03A6703657409	WATER DISPENSER UNIT RENTAL-ANNEX 1	
		02/15/2023	03A6703660053	WATER DISPENSER UNIT RENTAL-CITY HALL CITY CLERK AREA	
		02/15/2023	03A6703658273	WATER DISPENSER UNIT RENTAL-FIRE STATION 91	
		02/15/2023	03A6703660052	WATER DISPENSER UNIT RENTAL-CITY HALL LOBBY	
		02/15/2023	03A6703660050	WATER DISPENSER UNIT RENTAL-CITY HALL DEV SVCS AREA	
		02/15/2023	03A6706250064	WATER DISPENSER UNIT RENTAL-FIRE STATION 2	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
Remit to: LOUISVILLE, KY					FYTD:	$6,934.78
REGALADO, BLANCA E	35939	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES-FOLKLORIC DANCE ADULT & YOUTH CLASSES		$580.80
Remit to: MORENO VALLEY, CA					FYTD:	$5,248.20
REYES, ALEJANDRA	35861	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
RIVERA, JOCELYN	35862	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
RIVERAL, ANGELICA	245061	02/22/2023	R22-169269	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: RIVERSIDE, CA					FYTD:	$95.00
RIVERSIDE COUNTY SHERIFF-PSEC UNIT	244903	02/01/2023	PE0000000701	PSEC RADIO SUBSCRIPTIONS-CODE 12/1-12/31/22		$932.04
		02/01/2023	PE0000000702	PSEC RADIO SUBSCRIPTIONS-PARK RANGERS 12/1-12/31/22		
	245042	02/22/2023	PE0000000762	PSEC RADIO SUBSCRIPTIONS-PARK RANGERS 1/1-1/31/23		$990.50
		02/22/2023	PE0000000763	PSEC RADIO SUBSCRIPTIONS-OEM 1/1-1/31/23		
		02/22/2023	PE0000000761	PSEC RADIO SUBSCRIPTIONS-CODE 1/1-1/31/23		
Remit to: RIVERSIDE, CA					FYTD:	$9,381.34
RIVERSIDE MEDICAL CLINIC	36002	02/22/2023	700000183-011223	OCCUPATIONAL MEDICINE-EMPLOYMENT PHYSICALS/DRUG SCREENINGS		$13,917.80
Remit to: RIVERSIDE, CA					FYTD:	$13,917.80

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
ROADPOST USA INC DBA BLUECOSMO	35863	02/08/2023	BU01524632	SATELLITE PHONE SERVICE PLAN-FIRE		$1,090.80
	36003	02/22/2023	BU01526240	SATELLITE PHONE SERVICE PLAN-FIRE		$1,339.00
Remit to: SEATTLE, WA					FYTD:	$29,310.35
ROMAN TINT, INC	35775	02/01/2023	3048	WINDOW TINT SERVICES- FIRE STATION 65		$879.24
Remit to: RIALTO, CA					FYTD:	$2,268.41
ROMO PLANNING GROUP INC	36004	02/22/2023	2022-01	PLANNING CONSULTANT SERVICES - DEC. 2022		$1,560.00
Remit to: RANCHO CUCAMONGA, CA					FYTD:	$1,560.00
RONALD, TERRY	244942	02/01/2023	MVA010027478	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: YUMA, AZ					FYTD:	$57.50
RSG, INC	35864	02/08/2023	I009734	FY 22-23 SB 341 REPORTING SERVICES - DEC. 2022		$326.25
		02/08/2023	I009735	AFFORDABLE HOUSING COMPLIANCE MONITORING SERVICES-DEC. 2022		
Remit to: IRVINE, CA					FYTD:	$17,157.50
RUGAMAS, IVAN	35865	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
RUGAMAS, TATIANA	35866	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SAFEWAY SIGN CO.	35776	02/01/2023	54034	SIGNS FOR ECON. DEVELOPMENT NEW BUSINESS WELCOME PROGRAM		$653.19
		02/01/2023	54171	SIGNS FOR ECON. DEVELOPMENT NEW BUSINESS WELCOME PROGRAM		
	35867	02/08/2023	54168	BEAUTIFY MOVAL ADOPTION ALUMINUM PLAQUE DECALS		$956.17
	36005	02/22/2023	54298	TRAFFIC SIGNS/HARDWARE		$239.21
Remit to: ADELANTO, CA					FYTD:	$55,877.51
SANAME , MILFORD	244984	02/08/2023	2003064.047	DEPOSIT REFUND-TOWNGATE COMM. CTR		$209.60
Remit to: MORENO VALLEY, CA					FYTD:	$209.60
SANTA CRUZ MOTORS	245026	02/15/2023	MVA010027833	REFUND PARKING CITATION FEE - DISMISSED		$57.50
Remit to: SANTA CRUZ, CA					FYTD:	$57.50
SAUCEDO, BIANCA	35868	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
SC COMMERCIAL LLC DBA SC FUELS	35869	02/08/2023	2309759-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		$11,507.83
		02/08/2023	2307168-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		
		02/08/2023	2308962-IN	FUEL FOR CITY VEHICLES & EQUIPMENT		
Remit to: ORANGE, CA					FYTD:	$395,537.79
SCHLEF, KAREN	245062	02/22/2023	R22-169445	ANIMAL SERVICES REFUND S/N AND RAB DEP		$95.00
Remit to: MORENO VALLEY, CA					FYTD:	$95.00
SCHROER MFG. COMPANY, dba. SHOR-LINE	245001	02/15/2023	1089138	MESH STEEL KENNEL TOPPERS		$7,303.06
Remit to: KANSAS CITY, KS					FYTD:	$7,303.06

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SCMAF - INLAND VALLEY	244904	02/01/2023	89675	2022 CONTRACT CLASS INSURANCE COVERAGE		$4,919.95
Remit to: S. EL MONTE, CA					FYTD:	$4,919.95
SEARLE CREATIVE GROUP, LLC	35777	02/01/2023	23029	WEBSITE HOSTING & MAINTENANCE-DEC. 2022		$1,003.75
Remit to: VENTURA, CA					FYTD:	$10,230.99
SECURITY LOCK & KEY	244905	02/01/2023	31953	ADDITIONAL KEY COPIES-COTTONWOOD GOLF & TOWNGATE CC		$553.99
		02/01/2023	31954	PERRIS/HEMLOCK SUBSTATION LOCK REPAIR-PUBLIC SAFETY BLDG.		
		02/01/2023	31960	HR FILE CABINET RE-KEY-CITY HALL		
		02/01/2023	31961	5 GMK KEY COPIES-CITY YARD		
	245002	02/15/2023	31988	REKEY OF PIO OFFICE-CITY HALL		$112.20
Remit to: RIVERSIDE, CA					FYTD:	$3,074.38
SECURITY SIGNAL DEVICES, INC. DBA SSD ALARM	35778	02/01/2023	R-00424733	ALARM SYSTEM SERVICES FOR MOVAL & KITCHING SUBSTATIONS-FEB. 2023		$515.47
	36006	02/22/2023	R-00429886	ALARM SYSTEM SERVICES FOR MOVAL & KITCHING SUBSTATIONS-MAR. 2023		$515.47
Remit to: ANAHEIM, CA					FYTD:	$4,335.51
SICAIROS, BRITTANY	35870	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
SOCALGAS	245027	02/15/2023	LCO22-0097	REFUND FEES PAID IN ERROR 12/20/22 FOR LCO22-0097 INVOICE 164143		$645.00
Remit to: REDLANDS, CA					FYTD:	$645.00

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SOLOUTIONS AND INSIGHTS INC DBA LONGEVITY INC	35780	02/01/2023	1121548	PREVENTATIVE ULTRASOUND 10-SCREENING PACKAGE-EE SUBSIDY		$1,800.00
Remit to: LAGUNA HILLS, CA					FYTD:	$1,800.00
SOUTHERN CALIFORNIA EDISON	244906	02/01/2023	JAN-23 2/1/23	ELECTRICITY CHARGES		$5,941.70
	244959	02/08/2023	JAN-23 2/8/23	ELECTRICITY CHARGES		$5,467.34
	245043	02/22/2023	395913224/JAN-23	ELECTRICITY CHARGES (NOV22-JAN23 INCL. BILLING CORRECTIONS)		$22,047.71
		02/22/2023	JAN-23 2/22/23	ELECTRICITY CHARGES		
Remit to: ROSEMEAD, CA					FYTD:	$1,734,195.36
SPRING, WILLIAM	245063	02/22/2023	R22-170062	ANIMAL SERVICES REFUND S/N DEPOSIT		$75.00
Remit to: MORENO VALLEY, CA					FYTD:	$75.00
STAFFORD-SMITH, INC	35940	02/15/2023	5060061	NEW ICE MAKER INSTALL-TOWNGATE COMM. CENTER		$8,603.45
Remit to: KALAMAZOO, MI					FYTD:	$8,603.45
STANDARD INSURANCE CO	244961	02/08/2023	230201	EMPLOYEE SUPPLEMENTAL INSURANCE		$1,572.22
Remit to: PORTLAND, OR					FYTD:	$11,247.15
STATE BOARD OF EQUALIZATION 1	36175	02/24/2023	013123	SALES & USE TAX REPORT FOR 1/1-1/31/23		$880.00
Remit to: SACRAMENTO, CA					FYTD:	$19,088.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
STATE OF CALIFORNIA DEPT. OF JUSTICE	244907	02/01/2023	631611	BLOOD ALCOHOL ANALYSIS SERVICES FOR PD-DEC. 2022		$1,085.00
		02/01/2023	631664	BLOOD ALCOHOL ANALYSIS SVCS FOR PD-AUG/OCT 2022 BILL CORRECTIONS		
	244908	02/01/2023	627289	LIVE SCAN FINGERPRINTING APPS FOR PD-DEC. 2022		$1,330.00
	245004	02/15/2023	583527	LIVE SCAN FINGERPRINTING APPS FOR PD-MAY 2022		$98.00
	245045	02/22/2023	638194	BLOOD ALCOHOL ANALYSIS SERVICES FOR PD-JAN. 2023		$490.00
		02/22/2023	638250	BLOOD ALCOHOL ANALYSIS SVCS FOR PD-NOV. 2022 BILL CORRECTIONS		
	245046	02/22/2023	633367	LIVE SCAN FINGERPRINTING APPS FOR PD-JAN. 2023		$827.00
Remit to: SACRAMENTO, CA					FYTD:	$24,815.00
STATE WATER RESOURCES CONTROL BOARD 1	245005	02/15/2023	WD-0228814	SR60/MORENO BEACH PH 2		$2,662.00
		02/15/2023	WD-0228832	SR60/MORENO BEACH PH 2		
Remit to: SACRAMENTO, CA					FYTD:	$2,662.00
STATEWIDE EMERGENCY SERVICES INC	35941	02/15/2023	2963	EMERGENCY ABATEMENT SERVICES-DISPOSABLE LIQUIDS/HAZ WASTE_ROBERTS WY		$7,728.01
Remit to: BLOOMINGTON, CA					FYTD:	$12,347.27
STATEWIDE TRAFFIC SAFETY AND SIGNS, INC	36007	02/22/2023	13010245	TRAFFIC SAFETY EQUIPMENT-LIME VESTS		$216.89
Remit to: PASADENA, CA					FYTD:	$7,969.69
STEVEN B. QUINTANILLA A PROFESSIONAL CORPORATION	36008	02/22/2023	JAN-23/NIELSEN	SPECIAL COUNSEL LITIGATION SVCS-NIELSEN, ET AL. 01/01-01/31/23		$4,692.07
Remit to: PALM SPRINGS, CA					FYTD:	$1,054,302.36

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
STEVEN PERRY PROFESSIONAL PHOTOGRAPHY	35872	02/08/2023	230201.1	PHOTOGRAPHY SERVICES 1/30/23 - VICTORIANO PARK LIGHTING CEREMONY	$168.75
	36009	02/22/2023	230211.1	PHOTOGRAPHY SERVICES 2/11/23 - COMMUNITY DAY OF SERVICE EVENT	$497.50
Remit to: MORENO VALLEY, CA				FYTD:	$10,302.76
STILES ANIMAL REMOVAL, INC.	244962	02/08/2023	2925	DECEASED LARGE ANIMAL REMOVAL SERVICES-JAN. 2023	$2,010.00
Remit to: GUASTI, CA				FYTD:	$16,605.00
STRADLING, YOCCA, CARLSON & RAUTH	35943	02/15/2023	393970-0000	LEGAL SERVICES-GENERAL/HOUSING AUTHORITY MATTERS-DEC. 2022	$11,704.00
		02/15/2023	393971-0006	LEGAL SERVICES-RANCHO BELAGO: PHASE 2 COTTONWOOD MATTER-DEC 2022	
		02/15/2023	392920-0007	LEGAL SERVICES-MARY ERICKSON HOUSING MATTER-NOV. 2022	
		02/15/2023	392919-0006	LEGAL SERVICES-RANCHO BELAGO: PHASE 2 COTTONWOOD MATTER-NOV 2022	
		02/15/2023	392918-0000	LEGAL SERVICES-GENERAL/HOUSING AUTHORITY MATTERS-NOV. 2022	
		02/15/2023	393972-0007	LEGAL SERVICES-MARY ERICKSON HOUSING MATTER-DEC. 2022	
Remit to: NEWPORT BEACH, CA				FYTD:	$46,610.00
SUNNA DESIGN INC	35944	02/15/2023	IN200986	SOUTH COAST LIGHTING & DESIGN UNITS-HOUND TOWN DOG PARK	$24,974.92
Remit to: MIAMI, FL				FYTD:	$24,974.92

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
SUNNYMEAD ACE HARDWARE	244963	02/08/2023	97366	MISC. SUPPLIES FOR PD - MVSS MAINTENANCE		$116.85
		02/08/2023	97104	MISC. SUPPLIES FOR FIRE STATION 48		
		02/08/2023	97024	MISC. SUPPLIES FOR FIRE STATION 2		
		02/08/2023	97044	MISC. SUPPLIES FOR FIRE STATION 91		
	245006	02/15/2023	97552	MISC. SUPPLIES FOR FIRE STATION 2		$35.51
	245047	02/22/2023	97578	MISC. SUPPLIES FOR FIRE STATION 6		$13.23
Remit to: MORENO VALLEY, CA					FYTD:	$1,495.42
SUPERIOR READY MIX CONCRETE	244964	02/08/2023	318478	DELIVERY OF MIXED CONCRETE		$2,878.92
		02/08/2023	324947	DELIVERY OF MIXED CONCRETE		
		02/08/2023	315796	DELIVERY OF MIXED CONCRETE		
		02/08/2023	319290	DELIVERY OF MIXED CONCRETE		
Remit to: ESCONDIDO, CA					FYTD:	$7,698.93
TADEO, JUAN	245064	02/22/2023	R23-171125	ANIMAL SERVICES REFUND OUT OF AREA LICENSE		$54.00
Remit to: MORENO VALLEY, CA					FYTD:	$54.00
TEJEDA VALENCIA, ELIZABETH	35873	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
TERRACON CONSULTANTS, INC	36010	02/22/2023	TI06698	GEOTECHNICAL SERVICES - EARTHQUAKE FAULT TRENCHING/WLC		$620.00
Remit to: ST. LOUIS, MO					FYTD:	$22,519.75
THE ADVANTAGE GROUP/ FLEX ADVANTAGE	35945	02/15/2023	152982	FLEX AND COBRA ADMIN FEES-JAN. 2023		$1,430.50
Remit to: TEMECULA, CA					FYTD:	$408,496.81

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
THE ECOHERO SHOW LLC	35875	02/08/2023	2158	THE ECOHERO SHOW SCHOOL OUTREACH ASSEMBLIES-JANUARY 2023	$4,800.00
Remit to: FRESNO, CA				FYTD:	$6,000.00
THERMAL-COOL INC.	36011	02/22/2023	33433-2	HVAC ROUTINE MAINTENANCE - SUNNYMEAD PARK SNACK BAR	$115.00
Remit to: RIVERSIDE, CA				FYTD:	$909.00
THOMPSON COBURN LLP	35877	02/08/2023	3586780	LEGAL SERVICES-MVU/RELIABILITY STANDARD COMPLIANCE/DEC. 2022	$27.71
Remit to: WASHINGTON, DC				FYTD:	$352.70
THOMSON REUTERS-WEST PUBLISHING CORP.	35946	02/15/2023	847780767	AUTO TRACK SERVICES FOR PD INVESTIGATIONS-JAN. 2023	$1,295.14
Remit to: CAROL STREAM, IL				FYTD:	$10,361.12
T-MOBILE USA, INC.	244909	02/01/2023	9520118415	CELLULAR TECHNOLOGY EXTRACTION/LOCATOR SERVICES FOR PD	$25.00
Remit to: SEATTLE, WA				FYTD:	$3,585.00
TORRES, YURI	244985	02/08/2023	R23-170687	ANIMAL SERVICES REFUND UNNECESSARY LICENSE	$15.00
Remit to: MORENO VALLEY, CA				FYTD:	$15.00
TOUCH OF SOUL	35878	02/08/2023	DEC. 2022	INSTRUCTOR SERVICES - SOUL LINE DANCING CLASS	$361.20
	35947	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - SOUL LINE DANCING CLASS	$412.80
Remit to: MORENO VALLEY, CA				FYTD:	$2,812.20
TOVAR, JERRY FABIAN	244986	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023	$250.00
Remit to: MORENO VALLEY, CA				FYTD:	$250.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TOWNSEND PUBLIC AFFAIRS, INC.	35782	02/01/2023	19368	CONSULTING SERVICES-LOBBYIST/ADVOCATE & GRANT WRITING-JAN. 2023		$4,000.00
Remit to: NEWPORT BEACH, CA					FYTD:	$32,000.00
TREDENT DATA SYSTEMS, INC.	245048	02/22/2023	55773	TDS-NETCARE SOFTWARE MAINTENANCE RENEWAL 2023		$8,018.60
Remit to: WESTLAKE VILLAGE, CA					FYTD:	$8,018.60
TRICHE, TARA	35948	02/15/2023	JAN. 2023	INSTRUCTOR SERVICES - BALLET/DANCE EXPLORATION CLASSES		$1,458.00
Remit to: MORENO VALLEY, CA					FYTD:	$10,118.70
TRI-CITY ACOUSTICS, INC	244943	02/01/2023	BL#06762-YR2023	REFUND OF OVERPAYMENT FOR BL#06762		$98.50
Remit to: REDLANDS, CA					FYTD:	$98.50
TRUEPOINT SOLUTIONS, LLC	35949	02/15/2023	23-0080	SUPPORT SERVICES - ACP SUPPORT & ENHANCEMENTS/JAN. 2023		$2,475.00
Remit to: LOOMIS, CA					FYTD:	$17,565.00
TSG ENTERPRISES, INC. DBA THE SOLIS GROUP	35784	02/01/2023	9997	PVT REHAB CWA		$10,814.00
		02/01/2023	9993	CITYWIDE PVT REHAB FY 20/21		
		02/01/2023	9994	CITYWIDE PVT REHAB PROG (FY 21-26)		
		02/01/2023	9996	PVT REHAB CWA		
	35879	02/08/2023	9707	CITYWIDE PVT REHAB FY 20/21		$7,858.00
		02/08/2023	9710	SR60/MORENO BEACH PH 2		
		02/08/2023	9708	CITYWIDE PVT REHAB PROG (FY 21-26)		
	36012	02/22/2023	10135	PVT REHAB (CDBG FY 21/22)		$8,719.00
		02/22/2023	10141	PVT REHAB CWA		
		02/22/2023	10140	CITYWIDE PVT REHAB PGM (FY26-31) CITYWIDE		
		02/22/2023	10138	PVT REHAB FY 21/22		
Remit to: PASADENA, CA					FYTD:	$60,865.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
TUMON BAY RESORT & SPA	35785	02/01/2023	FEB. 2023 RENT	FEB. 2023 RENT (INCL. CAM, ETC) FOR BUSINESS & EMP. RESOURCE CTR		$8,435.37
Remit to: TAMUNING, GU					FYTD:	$57,632.59
TYLER TECHNOLOGIES, INC.	244967	02/08/2023	045-405148	BUSINESS PROCESS REVIEW - PAYROLL/HR		$1,050.00
Remit to: DALLAS, TX					FYTD:	$9,833.25
U.S. BANK NA	35880	02/08/2023	13588846	INVESTMENT CUSTODIAL SERVICES-DEC. 2022		$840.00
Remit to: ST. PAUL, MN					FYTD:	$10,007,195.00
ULTRASERV AUTOMATED SERVICES, LLC	35787	02/01/2023	261868	COFFEE SERVICE SUPPLIES-CITY HALL/PUBLIC WORKS LOCATION		$981.24
		02/01/2023	262076	COFFEE SERVICE SUPPLIES-ANNEX 1		
		02/01/2023	261869	COFFEE SERVICE SUPPLIES-CITY HALL/BREAK ROOM LOCATION		
		02/01/2023	261991	COFFEE SERVICE SUPPLIES-ANNEX 1		
		02/01/2023	262075	COFFEE SERVICE SUPPLIES-CITY HALL/PUBLIC WORKS LOCATION		
		02/01/2023	262074	COFFEE SERVICE SUPPLIES-ANIMAL SHELTER		
	36013	02/22/2023	262322	COFFEE SERVICE SUPPLIES-CITY HALL/PUBLIC WORKS LOCATION		$1,278.42
		02/22/2023	262221	COFFEE SERVICE SUPPLIES-CITY HALL/BREAK ROOM LOCATION		
		02/22/2023	262222	COFFEE SERVICE SUPPLIES-ANIMAL SHELTER		
		02/22/2023	262214	COFFEE SERVICE SUPPLIES-CITY HALL/CITY CLERK LOCATION		
		02/22/2023	262138	COFFEE SERVICE SUPPLIES-ANNEX 1		
		02/22/2023	262132	COFFEE SERVICE SUPPLIES-CITY YARD		
		02/22/2023	262314	COFFEE SERVICE SUPPLIES-CITY HALL/CITY CLERK LOCATION		
Remit to: COSTA MESA, CA					FYTD:	$9,377.72
UNITED ROTARY BRUSH CORP	35881	02/08/2023	CI293025	STREET SWEEPER BRUSHES & ACCESSORIES		$1,498.83
		02/08/2023	CI293231	STREET SWEEPER BRUSHES & ACCESSORIES		
Remit to: DALLAS, TX					FYTD:	$33,090.74

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
UNITED SITE SERVICES OF CA, INC.	35788	02/01/2023	114-13493779	FENCE RENTAL AT ANIMAL SHELTER 01/12-02/08/23	$106.40
Remit to: DALLAS, TX				FYTD:	$851.20

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
VACATE TERMITE & PEST ELIMINATION COMPANY	35882	02/08/2023	121091	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 2	$2,200.00
		02/08/2023	121253	PEST CONTROL SERVICE-JAN. 2023-PUBLIC SAFETY BLDG.	
		02/08/2023	121089	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 6	
		02/08/2023	121146	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-SENIOR CENTER	
		02/08/2023	121154	PEST CONTROL SERVICE-JAN. 2023-MAIN LIBRARY	
		02/08/2023	121064	ONE TIME PEST CONTROL SERVICE-MAIN LIBRARY	
		02/08/2023	121090	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 48	
		02/08/2023	121656	PEST CONTROL SERVICE-JAN. 2023-MALL LIBRARY	
		02/08/2023	121104	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 58	
		02/08/2023	121096	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 99	
		02/08/2023	121556	PEST CONTROL SERVICE-JAN. 2023-COTTONWOOD GOLF CENTER	
		02/08/2023	121107	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 91	
		02/08/2023	121145	PEST CONTROL SERVICE-JAN. 2023-SENIOR CENTER	
		02/08/2023	121147	PEST CONTROL SERVICE-JAN. 2023-CITY YARD	
		02/08/2023	121159	PEST CONTROL SERVICE-JAN. 2023-MARCH FIELD PARK CC	
		02/08/2023	121108	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 65	
		02/08/2023	121171	PEST CONTROL SERVICE-JAN. 2023-MARCH ANNEX	
		02/08/2023	121249	PEST CONTROL SERVICE-JAN. 2023-ANIMAL SHELTER	
		02/08/2023	121444	PEST CONTROL SERVICE-TOWNGATE COMM. CENTER	
		02/08/2023	121256	PEST CONTROL SERVICE-JAN. 2023-EMERGENCY OPS CENTER	
		02/08/2023	121419	BLACK WIDOW TREATMENT-TOWNGATE COMM. CENTER	
		02/08/2023	121539	PEST CONTROL SERVICE-JAN. 2023-FIRE STATION 58	
		02/08/2023	121158	PEST CONTROL SERVICE-JAN. 2023-TOWNGATE COMM. CENTER	
		02/08/2023	121250	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-ANIMAL SHELTER	
		02/08/2023	121149	PEST CONTROL SERVICE-JAN. 2023-TRANSPORTATION TRAILER	

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
VACATE TERMITE & PEST ELIMINATION COMPANY	35882	02/08/2023	121255	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-PUBLIC SAFETY BLDG.	$2,200.00
		02/08/2023	121148	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-CITY YARD	
		02/08/2023	121258	PEST CONTROL SERVICE-JAN. 2023-CITY HALL	
		02/08/2023	121259	PEST CONTROL SERVICE-JAN. 2023-CONFERENCE & REC. CENTER	
		02/08/2023	121420	PEST CONTROL SERVICE-JAN. 2023-RAINBOW RIDGE	
		02/08/2023	121497	PEST SERVICE FOR ANTS-MAIN LIBRARY	
		02/08/2023	121157	MOSQUITO ABATEMENT TRAP/FLY LIGHT SERVICE-TOWNGATE COMM. CENTER	
Remit to: MORENO VALLEY, CA				FYTD:	$26,385.00
VALDIVIA, CELSA	244944	02/01/2023	2002878.047	DEPOSIT REFUND-TOWNGATE COMM. CTR	$209.60
Remit to: RIVERSIDE, CA				FYTD:	$209.60
VALENZUELA, EDWIN	245028	02/15/2023	R23-171085	ANIMAL SERVICES REFUND ADOPTION OVERCHARGE	$18.00
	245065	02/22/2023	R23-171085	ANIMAL SERVICES REFUND S/N AND RAB DEP	$95.00
Remit to: MORENO VALLEY, CA				FYTD:	$113.00
VELASQUEZ, MICHELLE	245066	02/22/2023	MVA050029417	REFUND PARKING CITATION FEE - DISMISSED	$57.50
Remit to: COLTON, CA				FYTD:	$57.50
VERIZON WIRELESS	244911	02/01/2023	9925003510	DATA CHARGES FOR CELLULAR SERVICE FOR PD DEVICES	$440.05
Remit to: DALLAS, TX				FYTD:	$4,247.35
VERTIGIS NORTH AMERICA DBA LATITUDE GEOGRAPHICS	245049	02/22/2023	IN-VGNA-00004518	GCX SERVICES-APP DEVELOPMENT & SERVICES - JAN. 2023	$300.00
Remit to: VICTORIA, BC				FYTD:	$25,492.00

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
VERTIKAL RMS DBA CERTFOCUS	35950	02/15/2023	80879	INSURANCE REVIEW SOFTWARE ANNUAL SERVICE FEE		$10,500.00
Remit to: PLAINVIEW, NY					FYTD:	$13,200.00
VICTOR MEDICAL CO	35951	02/15/2023	5733027	ANIMAL MEDICAL SUPPLIES/VACCINES		$197.45
Remit to: LAKE FOREST, CA					FYTD:	$14,930.45
VISION SERVICE PLAN	35883	02/08/2023	817022184	EMPLOYEE VISION INSURANCE		$3,923.28
Remit to: SAN FRANCISCO, CA					FYTD:	$28,286.59
VOICES FOR CHILDREN, INC.	35884	02/08/2023	5 - (NOV. 2022)	CDBG SUBRECIPIENT PAYMENT-COURT APPTD. SPECIAL ADVOCATE PROGRAM		$6,104.21
		02/08/2023	6 - (DEC. 2022)	CDBG SUBRECIPIENT PAYMENT-COURT APPTD. SPECIAL ADVOCATE PROGRAM		
Remit to: SAN DIEGO, CA					FYTD:	$26,599.42
VOYAGER FLEET SYSTEM, INC.	35885	02/08/2023	8692116152252	CNG FUEL PURCHASES		$18,769.04
		02/08/2023	8692116152304	CNG FUEL PURCHASES		
	36014	02/22/2023	8693366022252	FUEL CARD CHARGES-PD TRAFFIC MOTORS		$3,097.61
Remit to: HOUSTON, TX					FYTD:	$112,337.16

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description		Payment Amount
VULCAN MATERIALS CO, INC.	35952	02/15/2023	73543955	ASPHALTIC/CRACK SEAL MATERIALS		$2,156.46
		02/15/2023	73530335	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73515036	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73515037	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73515035	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73524782	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73507928	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73528139	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73540954	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73507927	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73537981	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73523083	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73532536	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73530334	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73521504	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73518732	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73534436	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73515038	ASPHALTIC/CRACK SEAL MATERIALS		
		02/15/2023	73537982	ASPHALTIC/CRACK SEAL MATERIALS		
Remit to: LOS ANGELES, CA					FYTD:	$10,631.72
WALLEN, KIMBERLY	35886	02/08/2023	FEBRUARY 2023	MOVAL LEARNS-FEBRUARY 2023		$250.00
Remit to: MORENO VALLEY, CA					FYTD:	$1,250.00
WANG, ANNABELLE	35953	02/15/2023	REIMB. 2/3/23	REIMBURSEMENT TRANSPORTATION COSTS FOR CSMFO ANNUAL CONFERENCE		$69.98
Remit to: MORENO VALLEY, CA					FYTD:	$354.61

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
WAXIE ENTERPRISES, LLC DBA WAXIE SANITARY SUPPLY	35789	02/01/2023	81462389	JANITORIAL SUPPLIES FOR PD	$1,095.49
	35887	02/08/2023	81478830	JANITORIAL/CLEANING SUPPLIES FOR LIBRARY BRANCHES	$251.90
Remit to: LOS ANGELES, CA				FYTD:	$10,383.10
WEST COAST ARBORISTS, INC.	36015	02/22/2023	196136	TREE TRIMMING SERVICES - MAINT. & OPERATIONS DIVISION	$19,962.00
Remit to: ANAHEIM, CA				FYTD:	$254,873.77
WEST COAST SHOPPING CART SERVICE, INC.	245050	02/22/2023	23-006	SHOPPING CART RETRIEVAL SERVICES-JAN. 2023	$2,894.25
Remit to: WEST COVINA, CA				FYTD:	$28,262.50
WESTERN STATE DESIGN, INC	35888	02/08/2023	0556305-IN	SERVICE FOR PPE COMMERCIAL EQUIPMENT - FIRE STATION 99	$223.50
Remit to: HAYWARD, CA				FYTD:	$223.50
WILLDAN ENGINEERING	35790	02/01/2023	00713700	PROJECT MANAGEMENT SERVICES-DEC. 2022/NSP CLOSEOUT, ETC.	$4,007.50
	36016	02/22/2023	002-27881	PERMIT TECHNICIAN CONSULTANT SERVICES (LDD) OCT-DEC. 2022 PERMIT TECHNICIAN CONSULTANT SERVICES (LDD) JAN. 2023	$18,785.00
		02/22/2023	002-28222		
Remit to: ANAHEIM, CA				FYTD:	$776,022.31
WILLDAN FINANCIAL SERVICES	35791	02/01/2023	010-53096	CONTINUING DISCLOSURE-ARBITRAGE FEE SUB TARBS 2017	$4,500.00
		02/01/2023	010-53067	CONTINUING DISCLOSURE-CDIAC LRB 2019, 2020 COP TRIP, & LRB 2021	
Remit to: TEMECULA, CA				FYTD:	$330,539.64
WSP USA, INC.	35795	02/01/2023	1248697	SUNNYMEAD MDP LINE F AND F-7	$10,344.63
	35889	02/08/2023	1263366	MORENO MDP LINE F-18 AND F-19	$6,660.94
Remit to: SAN BERNARDINO, CA				FYTD:	$201,094.91

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

City of Moreno Valley

Payment Register

For Period 2/1/2023 through 2/28/2023

CHECKS UNDER $25,000

Vendor Name	Check/EFT Number	Payment Date	Inv Number	Invoice Description	Payment Amount
XEROX CAPITAL SERVICES, LLC	35796	02/01/2023	017928418	COLOR COPIER LEASE/BILLABLE PRINTS-DEC. 2022-GRAPHICS DEPT.	$775.58
		02/01/2023	017854016	COLOR COPIER EQUIPMENT LEASE-DEC. 2022-GRAPHICS DEPT.	
	35890	02/08/2023	018136575	COLOR COPIER LEASE/BILLABLE PRINTS-JAN. 2023-GRAPHICS DEPT.	$732.70
		02/08/2023	018136576	COLOR COPIER EQUIPMENT LEASE-JAN. 2023-GRAPHICS DEPT.	
Remit to: PASADENA, CA				FYTD:	$7,372.88
ZOLL MEDICAL CORPORATION	35956	02/15/2023	3655713	REPLACEMENT AUTOPULSE BAGS FOR E2, E6, AND E91	$1,149.15
Remit to: CHELMSFORD, MA				FYTD:	$2,029.63

TOTAL CHECKS UNDER $25,000 **$1,063,471.87**

GRAND TOTAL **$19,586,948.12**

Attachment: 2023_FebruaryPaymentRegsiter (6235 : FEBRUARY PAYMENT REGISTER 2023)

Report to City Council

TO: Mayor and City Council

FROM: Brian Mohan, Assistant City Manager

AGENDA DATE: April 18, 2023

TITLE: LIST OF PERSONNEL CHANGES

RECOMMENDED ACTION

Recommendation:

1. Ratify the list of personnel changes as described.

DISCUSSION

The attached list of personnel changes scheduled since the last City Council meeting is presented for City Council ratification.

Staffing of City positions ensures assignment of highly qualified and trained personnel to achieve Momentum MoVal priorities, objectives and initiatives.

FISCAL IMPACT

All position changes are consistent with appropriations previously approved by the City Council.

PREPARATION OF STAFF REPORT

Prepared By:
Serina Astorga
Executive Assistant

Department Head Approval:
Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Personnel Changes for Staff Report_4.18.23

APPROVALS

Budget Officer Approval	✓ Approved	4/11/23 8:21 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/11/23 9:28 AM

City of Moreno Valley
Personnel Changes- 3/1/23- 3/31/23
April 18, 2023

New Hires

Christopher Ray, Parks Maintenance Worker, Parks Maintenance, Parks and Community Services

Luis Rodriguez, Maintenance Worker I, Maintenance and Operations, Public Works

Allen Yun, Parks Project Manager, Administration, Parks and Community Services

Christian Yates, Community Services Assistant Coordinator, Recreation Services – Sports Program, Parks and Community Services

Promotions

Griselda Espino-Salcedo
From: Senior Permit Technician, Planning, Community Development
To: Assistant Planner, Planning, Community Development

Transfers

Kaitlyn Choma
From: Administrative Assistant, Fire, Office of Emergency Management
To: Administrative Assistant, Financial and Management Services Administration, Financial and Management Services Department

Separations

Monticha Imsuksri, Senior Accountant, Human Resources, Financial and Management Services Department

Tina Cox. Senior Payroll Technician, Administration, Financial and Management Services Department

Attachment: Personnel Changes for Staff Report_4.18.23 (6230 : LIST OF PERSONNEL CHANGES)

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	April 18, 2023
TITLE:	APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS AND THE CITY OF MORENO VALLEY TO PARTICIPATE IN THE WESTERN RIVERSIDE REGIONAL FOOD RECOVERY PROGRAM

RECOMMENDED ACTION

Recommendations:

1. Approve the City of Moreno Valley entering into a 3-year agreement with Western Riverside Council of Governments (WRCOG) for the City of Moreno Valley to participate in the Western Riverside Regional Food Recovery Program for $117,329 for FY2022/23.

2. Authorize the City Manager or designee to execute the Memorandum of Agreement (MOA) and any subsequent related extensions or amendments with the Western Riverside Council of Governments (WRCOG) subject to the approval of the City Attorney.

3. Authorize the Chief Financial Officer to appropriate budget as set forth in the Fiscal Impact section of this report.

SUMMARY

Staff is requesting City Council's approval for the City of Moreno Valley to enter into a 3-year agreement with Western Riverside Council of Governments (WRCOG) to participate in the Western Riverside Regional Food Recovery Program for $117,329; authorize the City Manager or designee to execute the Memorandum of Agreement (MOA) and any subsequent related extensions or amendments with WRCOG, subject to the approval of the City Attorney and authorize the Chief Financial Officer to appropriate budget as set forth in the Fiscal Impact section.

DISCUSSION

In September 2016, Governor Brown signed SB 1383 into law. SB 1383 establishes methane reduction targets as part of a larger strategy to combat climate change and reduce greenhouse gas (GHG) emissions. Methane is the second most abundant human-caused GHG and is a short-lived climate pollutant (SLCP) that degrades in the atmosphere in approximately 12 years. The goal of SB 1383 is to reduce SLCPs, namely methane emissions created by landfills, dairies, and livestock, as well as organic waste2. About 20 percent of methane emissions in California come from landfills. Diverting organic waste to compost facilities can reduce methane production and improve local air quality.

SB 1383 is the most significant waste reduction mandate to be adopted in California in the last 30 years. The law establishes a mandated target to achieve a 75 percent reduction in statewide disposal of organic waste by 2025. It requires the state to increase edible food recovery by 20% for human consumption by 2025. SB 1383 stipulates the implementation of organic waste recycling programs and makes local jurisdictions directly responsible for the following actions, starting on January 1, 2022:

- Provide organic waste collection to all organic waste generators, including residents, businesses, City facilities, and large events and venues;
- Procure recycled content paper and recovered organic waste products (i.e., compost, mulch, biomass, and renewable natural gas) at levels prescribed by the state annually. Such procurement standards must also be incorporated into an ordinance;
- Establish (via ordinance and otherwise) all required enforcement protocols that include a schedule of fines for non-compliant entities. This ordinance must match state-developed standards;
- Conduct education and outreach to all affected parties, including generators, haulers, facilities, and edible food recovery organizations; and
- Perform capacity planning covering 15 years for organic waste diversion from landfills;
- Implement an edible food recovery program that recovers edible food from the waste stream for human consumption.

To address food waste and its link to food insecurity, SB 1383 requires California to recover 20% of edible food, that would have otherwise been sent to landfills, and donate or redistribute it to those in need by 2025. Jurisdictions must establish edible food recovery outreach and inspection programs to assist in connecting food recovery organizations and services with edible food generators so that food can be redistributed or donated to those in need. Jurisdictions are responsible for ensuring there is the sufficient county-wide capacity to recover and redistribute all edible food. Specific edible food generators must arrange to recover the maximum amount of their edible food that would otherwise go to landfills, by establishing contracts with food recovery organizations and services and keeping up-to-date records of all edible food donated. Food recovery organizations and services that work with edible food generators must

maintain and submit records of donated edible food they have collected.

In January 2023, WRCOG approached its member cities about participating in this regional-wide program. The City of Moreno Valley has over 200 Tier 1 and Tier 2 businesses classified as Edible Food Generators (EFGs) and over twenty Food Recovery Organizations (FROs) that would need to be inspected and provided educational material on the new mandate and what is needed to comply. This new requirement would pull current resources away from the other recycling programs and efforts to ensure proper compliance is achieved. City staff has identified that it would be beneficial to contract with WRCOG and participate in the Regional Food Recovery program to help push unified messaging out to all the participating cities' EFGs and FROs that may operate throughout the County. Utilizing WRCOG and their consultant would assist staff with being able to continue working on the other important recycling programs run by the city.

WRCOG posted a request for proposal in December 2022, requesting for consultants to submit proposals for a Regional Food Recovery and Local Assistance program. WRCOG received two proposals with MSW Consultants being the awarded vendor. WRCOG notified its participating Cities of the selected vendor in January and hosted two presentations with the vendor so that those cities can review the provided information to determine if the program would be a good fit. Cities that participate in this program will be considered in compliance with the edible food recovery component required by SB 1383. The program will be administered and managed by WRCOG, including managing the contract with MSW Consultants, reviewing deliverables for accuracy, and coordinating meetings between the cities and MSW Consultants. Participating cities will be expected to engage with WRCOG and the MSW Consultants during the development and implementation of the program. The total cost to participate in this program will be an amount not to exceed $117,329 for the first year, including both consultant and WRCOG administrative fees. The program will include project management, compliance, capacity assessments, public outreach, education, and the development of the final report.

Inspection and enforcement of food recovery programs are included in the SB 1383 requirements. For those participating cities that need assistance with this aspect of SB 1383 requirements. This program will be conducted by MSW Consultants and will also be administered by WRCOG staff. The City of Moreno Valley received grant funding from CalRecycle last fiscal year, under the SB 1383 Local Assistance Grant and the remaining balance available is $277,398. Since this program falls within the guidelines of eligible use of SB 1383 funds, staff is requesting approval to use this grant funding to cover the costs associated with this agreement.

Participating in this regional program will help Moreno Valley satisfy the State requirement on the recycling of edible foods, a program that if the City were to take on its own, would be very difficult and more costly. The City's participation in this program and subsequent inspection program alleviates the City from one of the mandates of SB 1383 that are outside of the scope of the City's waste-hauling franchise agreement. Staff recommends participation in the program.

ALTERNATIVES

1. Approve the City of Moreno Valley entering into a 3-year agreement with the Western Riverside Council of Governments (WRCOG) for the City of Moreno Valley to participate in the Western Riverside Regional Food Recovery Program for $117,329. Authorize the City Manager or designee to execute the Memorandum of Agreement (MOA) and any subsequent related extensions or amendments with the Western Riverside Council of Governments (WRCOG) subject to the approval of the City Attorney. Authorize the Chief Financial Officer to appropriate the budget as set forth in the Fiscal Impact section of this report. ***Staff recommends this alternative as it would allow the City to become in compliance the food recovery program requirement of SB 1383.***

2. Elect not to Approve the City of Moreno Valley entering into a 3-year agreement with the Western Riverside Council of Governments (WRCOG) for the City of Moreno Valley to participate in the Western Riverside Regional Food Recovery Program for $117,329. Authorize the City Manager or designee to execute the Memorandum of Agreement (MOA) and any subsequent related extensions or amendments with the Western Riverside Council of Governments (WRCOG) subject to the approval of the City Attorney. Authorize the Chief Financial Officer to appropriate the budget as set forth in the Fiscal Impact section of this report. ***Staff does not recommend this alternative as this would deter compliance with SB 1383 mandate.***

FISCAL IMPACT

Staff is requesting City Council approval the use of the SB 1383 Local Assistance Program grant award to fund (2300-30-34-72208-625099) the first-year payment of $117,329 to WRCOG in FY 2022/23. Subsequent budget appropriation needed for FY2023/24 and FY2024/25, will be requested during the City's 2-year budget process. **There is no impact to the General Fund.** The following budget adjustment will be needed:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 22/23 Approved Budget	FY 22/23 Proposed Amendment	FY 22/23 Amended Budget
SB 1383 Grant - Oper Suppl - Other	2300	30-34-72208-630299	Exp	$168,000	($117,329)	$50,671
SB 1383 Grant - Oper Suppl - Other	2300	30-34-72208-625099	Exp	$12,042	$117,329	$129,371

NOTIFICATION

Listed on the City Council Agenda

PREPARATION OF STAFF REPORT

Prepared By:
Felicia London
Purchasing & Sustainability Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager/CFO/Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. MSW Consultants bid
2. WRCOG MoVal Program Agreement - Draft

APPROVALS

Budget Officer Approval	✓ Approved	3/29/23 8:48 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	3/29/23 9:51 AM

Regional Food Recovery and Local Assistance

Western Riverside Council of Governments

REQUEST FOR PROPOSAL SUBMISSION
NUMBER 22-13

MSW CONSULTANTS
41760 Ivy St., Suite 203 · Murrieta, California 92562
DAVID DAVIS, CMA
David@MSW-Consultants.com
951-694-400 · MSW-Consultants.com

DEGRAVE COMMUNICATIONS
40575 Cal Oaks Rd. D2-137 · Murrieta, CA 92592
LISELLE DEGRAVE, APR
liselle@DeGravePR.com
951-764-0865 · DeGravePR.com

MARIPOSA ECO CONSULTING, INC.
1618 Fairway Oaks Ave. · Banning, California 92220
CYNTHIA LOZANO VANT HUL
cynthia@mariposaecoconsulting.com
909-560-0542 · mariposaecoconsulting.com

MSW CONSULTANTS

dc DEGRAVE COMMUNICATIONS · PUBLIC RELATIONS ·

Mariposa Eco Consulting, Inc.

JANUAR

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

B. Table of Contents

A. Title Page	1
B. Table of Contents	2
C. Cover Letter	3
D. Firm Capabilities	4
E. Approach and Understanding	12
Budget	21
F. Appendix A: References	27
G. Appendix B: Project Team Staffing	35
H. Appendix C: Company Overview	48

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

CASEY DAILEY DIRECTOR OF ENERGY & ENVIRONMENTAL PROGRAMS
3390 UNIVERSITY AVENUE, SUITE 200 · RIVERSIDE, CA 92501 · CDAILEY@WRCOG.US

JANUARY 26, 2023

DEAR MR. DAILEY,

MSW Consultants, along with DeGrave Communications, and Mariposa Eco Consulting, are pleased to submit this proposal to perform Regional Food Recovery & Local Assistance to the Western Riverside Council of Governments (WRCOG). We believe our experienced staff and our breadth of knowledge in the solid waste and communications industries enables us to successfully perform this project. The following characteristics of our team set us apart from our competitors.

Team with extensive experience in assisting local governments comply with AB 341, AB 1826 and SB 1383

3 **Top Team Members with Accreditations in Public Relations (DeGrave Com)**

75+ **Collective Years in Marketing, Communications and Branding (DeGrave Com)**

15+ **Industry awards (DeGrave Com)**

Founded in 2000, MSW Consultants has provided solid waste and recycling consulting services exclusively to local governments in the areas of finance, economics, and public policy. With over 30 years experience in the solid waste industry, our organization has provided a broad range of solid waste consulting services to over 80 cities, counties and special districts in the areas of auditing, contract negotiation, rate setting, competitive service procurement, contract compliance, waste diversion, and regulatory compliance.

With DeGrave Communications' in-depth experience in developing award-winning communications, marketing and branding strategies for dozens of public-sector agencies, and first-hand knowledge of Southern California, we believe our team is the perfect fit and will bring a unique understanding to this project. For this project, MSW Consultants will serve as prime contractor. As president of MSW Consultants, I have the authority to bind the firm in a contract with WRCOG. I acknowledge that the proposal will be valid for at least 90 days and will become part of MSW Consultants' professional service agreement with WRCOG.

Collectively, the MSW Consultants/DeGrave/Mariposa Eco Consulting team have an unmatched understanding of the Riverside County region and have worked with several WRCOG member jurisdictions. Our firms will work side-by-side to achieve the objectives, and tasks set forth in this proposal. MSW Consultants will take the lead on the overall project management, and execution of Tasks 1, 2, 4, 5, 6, 7. The DeGrave team will oversee the execution of Task 3, and collaborate with MSW Consultants in Task 7. Mariposa Eco Consulting will support Tasks 4, 5 and 6.

Thank you for the opportunity to submit our proposal. Our team would welcome the opportunity to interview with WRCOG staff and member agencies.

Sincerely yours,

DAVID DAVIS, CMA
PRESIDENT · MSW CONSULTANTS
41760 Ivy St., Suite 203 · Murrieta, California 92562
951.694.4001 · dave@msw-consultants.com

LISELLE REGUIERO DEGRAVE, APR
PRESIDENT · DEGRAVE COMMUNICATIONS, INC.
40575 Cal Oaks Road D2-137 · Murrieta, CA 92562
951.764.0865 · Liselle@DeGravePR.com

CYNTHIA LOZANO VANT HUL PRESIDENT
PRESIDENT · MARIPOSA ECO CONSULTING
1618 Fairway Oaks Avenue · Banning, California 92220
909-560-0542 · cynthia@mariposaecoconsulting.com

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities

2000
Founded

Locally Based in Murrieta, CA

Multilingual Capabilities

Knowledge of Riverside County

Specialization in SB 1383 Outreach Projects

9
Collectively we have worked with 9 WRCOG Member agencies

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities (A & B)

MSW CONSULTANTS

A. MSW Consultants has provided solid waste consulting services to over 80 local governments in the areas of finance, economics, and public policy. We have over 30 years of experience providing consulting service over the full range of integrated waste management including collection, recycling, material processing, and disposal. We are continually helping our clients navigate the myriad of federal, state, and local rules that govern the solid waste management industry.

DEGRAVE COMMUNICATIONS

A. DeGrave Communications has a proven track record of working on dozens of similar projects to those listed in the scope of work. From developing large-scale agency-wide strategic communications plans to smaller waste-specific campaign communication outreach plans, our team has tackled them all. We understand the value of creating plans that are agency-specific, not cookie cutter. Specifically, our team has worked with City of Folsom, City of Newport Beach, City of Agoura Hills and City of Downey to develop communication plans for their unique SB 1383 outreach efforts. We assist our statewide public agencies with social media outreach, website copy and material development daily. As we have transitioned into a digital world, we have been able to help our clients with townhall meetings both in-person and virtually. More recently, we worked with SAWPA to develop a three-county outreach effort for a Trust the Tap campaign in English, Spanish and Chinese. Providing educational materials and resources to SAWPA's member agencies in Orange, Riverside and San Bernardino Counties.

MARIPOSA ECO CONSULTING, INC.

A. Mariposa Eco Consulting integrates all aspects of an environmental management firm, including air, water, solid waste, sustainable program management, energy, greenhouse gas reduction and measurement, hazardous waste and universal waste management, and resource conservation. We assist our clients with seeing the benefits of a sustainable earth; complying with and improving upon environmental laws, while generating profits and growth.

MSW CONSULTANTS

B. The MSW team consists of professional accountants and outreach specialists with extensive experience with designing and implementing solid waste programs.

DEGRAVE COMMUNICATIONS

B. Our team specializes in working with public agencies. We understand government and we understand WRCOG. Our team has worked internally and externally for public agencies; We understand the unique challenges that government agencies face. Some of our clients include: City of Agoura Hills, City of Folsom, City of Murrieta, City of Eastvale, City of Lake Elsinore, Elsinore Valley Municipal Water District, Western Municipal Water District and Lake Elsinore & San Jacinto Watersheds Authority (SAWPA).

MARIPOSA ECO CONSULTING, INC.

B. Mariposa Eco Consulting works with all aspects of businesses, local government, and communities to design, develop, and implement sustainable programs that work. We take the time to understand the specific circumstances of our clients, including demographics, economics, and environmental factors, allowing our clients to realize profits and compliance.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities (C)

MSW CONSULTANTS

DAVID DAVIS, CMA · PROJECT DIRECTOR

Mr. David Davis is a Certified Management Accountant (CMA) with over 30 years of experience in the field of solid waste management. Mr. Davis' expertise lies in working with municipal managers to maximize the value of the solid waste services provided to their ratepayers. He has held executive management positions in both the private and public sectors and has extensive experience in providing business advisory services to local government in the field of solid waste management.

ROLE: Mr. Davis will serve as the Project Director for this project. He will be the main point of contact and have overall responsibility for the project. He will direct the planning of the project and attend all meetings.

LUCAS ARIAS · PROJECT MANAGER

Lucas is a highly effective project manager. He has substantial experience in the waste industry and has served multiple cities across Los Angeles, Orange, Riverside, and Ventura counties. He graduated from California State University, Northridge with a BA in Jazz Studies. Before entering the waste industry, Mr. Arias has performed as a trumpet player and drummer with multiple artists across the country.

Role: Mr. Arias will serve as Project Manager. He will oversee the day-to-day operation to ensure all milestone and deadlines are met and review all reports for each task on this project. He will serve as task lead for facilitating meetings, assessing capacity and compliance, and developing and implementing the inspection program.

GIRARD MOBLEY · PROJECT ANALYST

Mr. Mobley is a skilled financial and project analyst. He has extensive experience in conducting audits on waste haulers for municipalities, and in providing recycling outreach and education to commercial waste generators. He graduated from San Diego State University with a BS in Business Administration with a focus on Finance and a minor in Economics. He is also a certified practitioner in the zero waste principles and practices.

Role: Mr. Mobley will serve as Project Analyst. He will serve as task lead for developing the food recovery program, drafting the final report and assisting as needed for all other tasks.

ALYSON SCHILL · CEO, CAREIT

Alyson brings an intimate knowledge of zero food waste to powerfully move initiatives forward. She continues to thrive at the heart of shaping and advocating for city, county, and statewide policies and support for food waste prevention. With a background in volunteer management, gleaning, sustainable event production, environmental service-learning leadership in educational institutions, and restaurant management, Alyson combines experiences from across the food waste chain to create meaningful and comprehensive waste reduction programs. Alyson is the CEO of the food donation app, Careit.

Role: Alyson will assist with onboarding jurisdictions into the Careit app and training. She will also provide technical support during inspections to tier generators.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities (C)

KAYLA FRIEDERICH · OUTREACH TECHNICIAN

Ms. Kayla Friederich is a diligent project analyst new to the solid waste industry. She has high standards for reporting quality data and providing effective outreach. Before joining MSW Consultants, Ms. Friederich has customer service experience in food service and retail. She has also gained further communication experience through social media creation by interning with The Water Conservation Garden and by assisting her family's small business.

Role: Ms. Friederich will serve as Outreach Technician. She will assist with capacity and compliance, implementing public outreach, and implementing the inspection program.

DEGRAVE COMMUNICATIONS, INC.

LISELLE DEGRAVE, APR · DIRECTOR

A veteran communicator, Liselle has nearly 20 years of experience and her expertise includes spearheading communications, marketing and outreach projects for public-sector, and non-profit clients throughout California. Her background blends both in-house communications and agency expertise to ensure impactful communications strategies for the clients she serves. She will serve as the principal-in-charge.

Role: Will be involved in Task 3 - overseeing the project management for all outreach efforts as well as strategy.

RACHEL MCGUIRE, MBA, APR · PROJECT MANAGER

Rachel is a recognized leader in the field of public relations and communications and brings nearly 20 years of experience working in-house and in an agency setting to this project along with a proven track record of award-winning communications, marketing, outreach and branding strategies. For this engagement, Rachel will serve as the director leading DeGrave Communication's fully integrated team of communications, marketing and outreach professionals.

Role: Will be involved in Task 3 – serving as project manager for all outreach efforts as well as strategy and developing copy.

JESSICA WINN · ACCOUNT EXECUTIVE

Jessica is a leader in the areas of organization administration and marketing. She has a proven track record of effectively supporting the DeGrave Communications team with community engagement, managing project organization and research. For this endeavor she will serve DeGrave Communication's fully integrated team of communications, marketing and outreach professionals to support research efforts.

Role: Will be involved in Task 3 – serving the team with any member agency requests, scheduling agency workshops and needed organizational support.

ASHLEY RINGGER · STRATEGIC VISUAL DESIGNER

Ashley is an accomplished professional in the fields of communications and public affairs. She brings nearly 15 years of experience in community outreach and engagement as well as graphic and website design to RMG

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities (C)

Communications. With a passion for public service and working in water, Ashley has designed communications campaigns and collateral for our clients, including program websites, social media content and graphics, fact sheets, water quality reports and Prop. 218 notifications. A gifted storyteller, graphic artist and web designer she will assist with crafting dynamic visuals together with meaningful content for this project.

Role: Will be involved in Task 3 – designing all needed campaign design elements including, but not limited to e-blasts, social media posts and campaign materials.

MARIPOSA ECO CONSULTING, INC.

CYNTHIA LOZANO VANT HUL · PROJECT MANAGER

Cynthia Lozano Vant Hul (President/Project Manager) is qualified by reasons of education, training background and over 25 years' experience in the solid waste and recycling industry. Cynthia has 14 years' experience providing subcontracting contract services. Cynthia holds a Master of Public Administration degree, from California State University San Bernardino. Since 2003, Cynthia has been a Director with the Southern California Waste Management Forum (SCWMF). In 2022, Cynthia was appointed as the President of the SCWMF. In 2019, she was appointed as a Director to the Women in Solid Waste & Recycling (WISR), new LA Chapter and since 2000 a member in good standings with the California Resource Recovery Association (CRRA).

Role: Cynthia will assist with the design of the inspection plan and edible food recovery program.

KYLE VANT HUL · PROJECT ANALYST

Kyle Vant Hul (Project Analyst) has 14 years' experience in the solid waste and recycling industry. He is a certified resource, recovery, and recycling consultant. Since 2011, Kyle was the lead recycling trainer for the LAUSD Expanded Recycling program. Kyle have led numerous comprehensive City audits in the Los Angeles, Orange, and Imperial Counties and in the Los Angeles County Garbage Districts. In 2017/2018 Kyle led sixteen Zero Waste Representatives in the Northeast Valley (NEV) City of Los Angeles, recycLA program. Today, Kyle provides the "On the Ground" daily assistance with the Recycling Coordinator staff within the LA Market in completing site assessments, program implementation and training.

ROLE: Kyle will assist with the implementation of the inspection program.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities

D. Firm Capabilities (D)

MSW CONSULTANTS

MSW Consultants is owned by David Davis, CMA and is a small size S-corp located in Murrieta, CA.

DEGRAVE COMMUNICATIONS

DeGrave Communications, Inc. is owned by Liselle DeGrave, APR and is a small size S-corp located in Murrieta, CA.

MARIPOSA ECO CONSULTING, INC.

Mariposa Eco Consulting, Inc. is owned by Cynthia Lozano Vant Hul and is a small sized California corporation located in Banning, CA.

D. Firm Capabilities (E)

MSW CONSULTANTS

MSW Consultants is owned by David Davis, CMA and is an S-corp founded in 2000.

DEGRAVE COMMUNICATIONS

DeGrave Communications, Inc. is currently an S-corp, incorporated in 2018, but founded in 2003 as a sole proprietorship.

MARIPOSA ECO CONSULTING, INC.

Mariposa Eco Consulting, Inc. is a California corporation: #C4009500, incorporated in 2011.

D. Firm Capabilities (F)

There are no special issues, problems, or risks that are likely to be encountered in this project and how the Proposer would propose to address them.

MSW Consultants, DeGrave Communications and Mariposa are all equal opportunity employers and do not condone any type of discrimination in the workplace.

At MSW Consultants, we believe that equal opportunity applies to everyone, we also understand that it is especially important for people in groups that have historically been subjected to unfair treatment in the workplace. Although we don't promise to employ or promote all people in such groups, we do pledge to treat qualified job applicants and employees eligible for promotion fairly. We also pledge to avoid discriminating against them based on conscious or unconscious biases.

Moreover, we prohibit discrimination and harassment of any type and afford equal employment opportunities to employees and applicants without regard to race, color, religion, sex, sexual orientation, gender identity or expression, pregnancy, age, national origin, disability status, genetic information, protected veteran status, or any other characteristic protected by law. We conform to the spirit as well as to the letter of all applicable laws and regulations.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

D. Firm Capabilities

D. Firm Capabilities (G)

MSW Consultants is 50% women-owned. We are an SB (Micro) certified firm, CID#: 2001476.

DeGrave Communications is a 51% women-owned, minority-owned, business. We are a WOSB, DBE and SBE certified firm. CUCP 49193 Metro 8782

Mariposa Eco Consulting, Inc. is a Women Business Enterprise (Women-Owned), small and disadvantage certificated company.

D. Firm Capabilities (H)

Experts in municipal waste and outreach make our team one-of-a-kind

WRCOG will benefit from the knowledge and expertise of our handpicked, fully integrated team of municipal waste and outreach professionals. Our proposed team of industry leaders combines MSW Consultants, veteran municipal solid waste management specialists, with DeGrave Communications' award-winning team of seasoned communications professionals along with and Mariposa's added "boots on the ground" grassroots efforts.

Together our seasoned team will provide WRCOG's member jurisdictions with a no-hassle, all-inclusive approach to a Regional Food Recovery & Local Assistance. Our team's streamlined proven strategy combines our firms' efforts and minimizes administrative costs for WRCOG to be able to complete the project with only one consultant to manage.

In addition, all three firms are based in Riverside County and have worked for many WRCOG jurisdictions.

MSW Consultants specializes in providing consulting service exclusively to local governments in the areas of waste contract procurement and negotiation, education and outreach, regulatory compliance, waste contract compliance audits, and customer rate-setting. To avoid any real or apparent conflicts of interest, we choose to not work for private waste companies. As a result, we bring a high level of independence and objectivity to our client engagements. MSW Consultants is currently providing solid waste consulting services to WRCOG members in the cities of Corona and Jurupa Valley and has provided services to the City of Norco.

DeGrave Communications has extensive knowledge of working with WRCOG member agencies, including the cities of Eastvale, Lake Elsinore, Murrieta, Menifee, along with Western Municipal Water District and Eastern Municipal Water District. We are well versed in SB 1383 and proven communication techniques to drive behavior change. We have developed personalized SB 1383 campaigns for the cities Agoura Hills, Newport Beach (award-winning), Folsom and Downey. These unique campaigns consider each agencies needs and goals to ensure long-term success. Our tailored approach to each agency is never cookie cutter and ensures each outreach program is successfully implemented at each agency.

Mariposa Eco Consulting's expertise as an environmental management consulting firm will complement the MSW Consultants team as they serve as a connection point with businesses in the WRCOG area.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

PROJECT UNDERSTANDING

A key goal of SB 1383 is to collect edible food that would otherwise go to waste, and redistribute it to feed people in need.

To achieve this goal, SB 1383 requires local jurisdictions to promote relationships between certain businesses that generate excess edible food (Tier 1 and Tier 2 generators), and food recovery organizations (e.g., food banks, food runners, etc.). Jurisdictions are required to: 1) conduct education and outreach to businesses, 2) monitor and keep records regarding each business' compliance, and, 3) enforce the regulations.

The approach of SB 1383 is to build upon existing food recovery networks. Moreover, jurisdictions are required to identify any shortfalls in existing capacity, and submit plans to CalRecycle on how they intend to fill any capacity gaps. The regulations require each individual jurisdiction to implement their own edible food recovery program.

However, because existing food recovery networks often cross over individual city boundaries, a regional approach often results in greater efficiency. Instead of throwing good food in the trash, businesses are required to donate that food (and keep a record of their donations). As a result, there is a double benefit. Edible food that would have otherwise been landfilled (and contribute to climate change), is used to reduce food insecurity.

OBJECTIVES

The objectives of this project are to assist WRCOG member jurisdictions by:

- Educating Tier 1 and Tier 2 businesses about their food donation obligations
- Increasing Tier 1 and Tier 2 businesses access to food recovery organizations, and food recovery services
- Monitoring Tier 1 and Tier 2 businesses' compliance with food recovery program requirements
- Identify any gaps in edible food recovery capacity, and help plan to fill those gaps, if needed.

APPROACH

Our approach to this project will be to apply our extensive experience in SB 1383 program implementation, to WRCOG'S specific requirements. We will be fully committed to the overall mission of WRCOG solid waste and recycling strategic goals.

In our proposed scope of work, we have highlighted several specialized approaches that enable us to efficiently accomplish the program objectives. We believe that our experience, and our specialized approaches, uniquely qualify us to perform this work for WRCOG.

DETAILED SCOPE OF WORK AND BUDGET

To accomplish WRCOG's objectives, we propose to perform the tasks detailed below.

Task 1 · Project Management

The purpose of this task is to keep the project on schedule and on task.

SUBTASK 1.1: KICKOFF MEETING/ANNUAL PROJECT STATUS MEETING

We will conduct an initial project kickoff meeting with WRCOG staff and representatives of member jurisdictions. We will also conduct annual project status meetings at the beginning of each year of the project. All meetings will be conducted via video conference call. At these meetings, we will discuss the overall status of the project. This will include, but not be limited to, a review of: 1) project objectives, 2) the scope of work, 3) key issues, 4) work products, and, 5) project schedule.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Deliverables:

- Meeting notes
- Materials for kickoff meeting and annual project status meetings

SUBTASK 1.2: PROJECT TEAM COORDINATION

In addition to our kickoff meeting and annual project status meetings, we will conduct biweekly meetings, make regular phone calls, send and respond to e-mails, and participate in other communications with WRCOG to keep the project on schedule and within budget.

Deliverables:

- Meeting notifications
- Meeting agendas and notes

TASK 1.3: PROJECT MANAGEMENT UPDATE MEETINGS

We will schedule up to eight (8) meetings with WRCOG staff and representatives of participating cities to provide information and obtain feedback on draft deliverables.

Deliverables:

- Meeting notifications
- Meeting agendas and notes
- Other relevant drafts and documents

Task 2 · Capacity and Compliance

The purpose of this task is to review and determine the capacity of food recovery organizations, and confirm which Tier 1 and Tier 2 generators have written agreements. To accomplish this task, we will build on the information we gathered in the organic waste capacity study that we performed for WRCOG in 2022.

We will review and determine the capacity of food recovery organizations in Subtask 2.1.

We will confirm which commercial edible food generators have written agreements in Subtask 2.2.

SUBTASK 2.1: FOOD RECOVERY AGENCIES AND ORGANIZATIONS

To review and determine the capacity of food recovery organizations, we will:

- Compile the FROs from participating cities into a Regional Detailed Report
- Review and report the FRO available capacity of each participating city
- Determine whether the FROs have a food recovery agreement, if they do not, we will provide them a sample agreement
- Update the list of food recovery organizations and services to update participating jurisdictions' websites to reflect their:
  - Name and physical address
  - Contact information
  - Collection service area
  - Types of recoverable food accepted

Deliverables:

- Regional Detailed Report containing a list of FRO formatted by each participating city

SUBTASK 2.2: TIER 1 AND TIER 2 EDIBLE FOOD WASTE GENERATORS COMPLIANCE

To confirm which commercial edible food generators have written agreements, we will:

- Compile the existing lists of CEFGs from participating cities into the

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Regional Detailed Report from task 2.1

- Review the list to determine if they qualify as Tier 1 or Tier 2 generators
- Review the generators access to capacity via food recovery agreements
- Update the list of Tier 1 and Tier 2 commercial edible food generators by jurisdiction to reflect:
  - Customer name and address
  - Primary contact information
  - Compliance status, including whether they have written agreements with food recovery organizations and donations logs
- Compile this information into the Regional Detailed Report, which will be in the form of one regional document with the information on each participating city formatted by sections.

Deliverables:

- Regional Detailed Report containing a list of CEFGs formatted by participating city

Task 3 · Public Outreach

The purpose of this task is to design and implement a targeted public outreach and education campaign that will increase awareness about food rescue among commercial edible food generators in Western Riverside County. The following approach and methodology has been created especially for WRCOG to successfully roll out edible food recovery to its member jurisdictions. Our goal will be to not only promote compliance with SB 1383, but to develop a strategy that will actually 'move the needle' toward the 20% Statewide food rescue goal in Western Riverside County.

TASK 3.1: DEVELOP COMMUNICATIONS AND EDUCATION PLAN

DeGrave will develop **multilingual outreach and education materials, and a detailed plan on comprehensive outreach and education efforts,** for member jurisdiction's Tier 1 and Tier 2 edible food generators. Our multi-pronged, strategic communications approach for this task includes the following four phases:

PHASE 1 RESEARCH

Effective Communication, Outreach and Education Strategies are Created – Not Copied. Research is the foundation for effective impactful communication, outreach and education projects and programs. At the start of Task 3.1 our team will embark upon a research and discovery process for this project. Our team will use information gathered in the research phase to solidify objectives, strategies, tactics, timelines and measure results. Here are our team's recommended steps for this task:

KICK-OFF MEETING

We will commence with a kick-off meeting, which can be held virtually or in-person, and will include key WRCOG, MSW and DeGrave team members. WRCOG will provide an overview of key public outreach deliverables, identify key milestones, project timeline, identify roles and responsibilities of WRCOG and agree on Task 3 deliverables. This meeting will also give us the opportunity to consult with WRCOG on behaviors participating WRCOG cities could participate in to meet Tier 1 and Tier 2 edible food waste mandates as well as determine any barriers to motivation that may be specific to the participating cities. We will also go over commonly asked questions that WRCOG's participating cities are receiving. This information will help us refine messaging and identify opportunities to further clarify SB 1383 details.

SURVEY

We recommend developing an online survey that is sent out to key stakeholders. This survey will be used to glean qualitative and quantitative

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

data on key stakeholders' understanding of SB 1383, how they like to receive information, barriers to participation and motivations for recycling. This data will help us further refine messaging and outreach and education methods. It will also serve as a baseline to measure success.

AUDIENCE IDENTIFICATION AND MAPPING

DeGrave Communications team members have worked with and for many WRCOG agencies. As part of our initial research efforts, we will identify key audiences. Identifying these audiences is important as it will help guide our plan rollout on how to reach these audiences. These key audiences will be gathered into a database for WRCOG.

COMMUNICATIONS AND MEDIA AUDIT

Our audit will focus on a review of what is currently being done throughout WRCOG cities and Tier 1 and 2 edible food waste generators to communicate SB 1383 requirements. We will make recommendations on how, to leverage education and outreach materials from CalRecyle in order to amplify the message.

PHASE 2: PLANNING

We will use the data and insights uncovered in Phase 1 to develop the overall Outreach and Education Plan. Prior to moving to Phase 3: Development of Outreach Materials, we will present our recommended Outreach and Education Plan to the WRCOG team to provide an opportunity for feedback and ensure a mutually agreed upon direction.

PHASE 3: IMPLEMENTATION

Based on the research and suggested strategies and tactics these efforts may include the following items noted below. All collateral items developed will follow WRCOG and/or participating cities' brand and writing style standards. It will also provide clear and effective messaging on edible food recovery and comply with Article 4. In addition, the materials developed will be multi-lingual and based on resources provided by CalRecycle.

Five Regional Educational Workshops will be organized in-person and/or virtual (with recording).

Possible suggestions for multilingual outreach items for Tier One and Tier Two Edible Food Generators:

- Flyers
- Multilingual Stickers
- Presentation/slide templates
- Social media
- Website content
- Newsletter content
- Fact sheets
- Brochures
- PSAs
- Ads
- News Release templates
- Signage
- Workshops

PHASE 4: EVALUATION

During this entire engagement, our team will continually evaluate the progress and refine the approach. If needed. It is recommended that six months after the program is implemented that WRCOG sends out a follow-up survey to gauge the success of the outreach program.

Deliverables:

- Outreach and Education Plan
- Multilingual Outreach and Education Materials

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

TASK 3.2: IMPLEMENT OUTREACH AND EDUCATION PLAN

Upon the approval of the Outreach and Education Plan, DeGrave Communications **will implement the plan.** This task will include the DeGrave team providing records of:

- All outreach and education efforts
- Copies of the utilized marketing materials
- The date and to whom the information was disseminated or if direct contact was made
- Recorded workshops (up to 5)

Deliverables:

- Weekly reports and updates on conducted outreach and education efforts, including emails, presentations, individuals/entities outreached, outcomes/relevant documents;
- Copies of the utilized marketing materials.
- Five-workshops (in-person or virtual)

Task 4 · Develop Inspection Schedule and Plan

The purpose of this task is to develop a written plan to conduct and document inspections and enforcement of commercial edible food generators. This plan will consist of:

1) written procedures to conduct outreach and inspections to individual Tier 1 and Tier 2 generators;

2) an electronic mechanism (e.g., Zendesk, etc.) and written procedures for member jurisdictions to receive and monitor complaints; and,

3) a timeline showing key start and completion dates of inspections of Tier 1 and Tier 2 generators by jurisdiction.

The written procedures will address inspections, complaints, and enforcement. They will be customized to work within each City's existing circumstances. The written inspection procedures will meet the requirements of Section 18995.1 (Jurisdiction Inspection Requirements). The written complaint procedures will include instructions how to use the electronic mechanism (e.g., Zendesk, etc.), and meet the requirements outlined in Sections 18995.3 (Jurisdiction Investigation of Complaints of Alleged Violations). The written enforcement procedures will meet the requirements of Section 18995.4 (Enforcement by a Jurisdiction) and Section 18997.2 (Penalty Amounts).

Deliverables:

- A written implementation plan and schedule to implement and manage an inspection program in participating cities.
- Electronic mechanism to receive, monitor, and manage complaints

Task 5 · Implement Inspection Schedule and Plan

The purpose of this task is to **implement the inspection program planned in Task 4.** This task will include conducting inspections, managing complaints, and documenting enforcement activities.

Onboarding to Careit

We propose to use Careit to aid in the performance of inspections. Careit is a food donation and rescue program management tool. Careit makes it easy for businesses and institutions to donate surplus food. Careit also enables municipalities to monitor, manage and report on their edible food recovery activities. More information about Careit can be found here: https://careitapp.com/

We will take the individual Tier generator and food recovery organization information compiled in Task 2, and upload it into Careit.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Conducting Inspections

We proposed to use Careit to inspect all Tier 1 generators, and all food recovery organizations. We will start inspections on or about April 1, 2023, and complete these inspections by December 31, 2023. We propose to use Careit to inspect all Tier 2 generators beginning January 1, 2024, and complete these inspections by June 30, 2024. Thereafter, we propose to inspect every Tier 1 and Tier 2 generator, and inspect every food recovery organization, once every fiscal year. This will ensure that all participating member jurisdictions will be in compliance with Section 18995.1 (2) (Jurisdiction Inspection Requirements). Our inspection work will consist of:

- Contacting, and visiting the locations of all commercial edible food generators, and food recovery organizations.
- Interviewing owners and employees to answer any questions, and ensure they understand the State's edible food donation requirements.
- Confirming the existence of written agreements.
- For edible food generators, reviewing written logs of food donations, and recording the types of food recovered into Careit.
- For food recovery organizations, reviewing food donation records, and recording the types and amounts of food recovered into Careit.
- Documenting the inspections we perform in Careit.

Managing Complaints

We propose to manage the food recovery complaints received by WRCOG and each member jurisdiction. We propose to use an electronic mechanism (e.g., Zendesk, etc.) by which member cities can accept and resolve complaints received from the general public. We will provide a web link that each member jurisdiction can include on their website, which will lead to the online complaint management system. The complaint management system will enable users to enter:

- The name and contact information of the complainant (If the complaint is not anonymous)
- The identity of the alleged violator, if known.
- A description of the alleged violation including location(s) and all other relevant facts known to the complainant.
- Any relevant photographic or documentary evidence to support the allegations in the complaint.
- The identity of any witnesses, if known.

For each of the complaints received by member jurisdictions, we will:

- Start an investigation within 90 days (if we determine that the alleged facts as presented would constitute a violation of SB 1383)
- Possibly decline to investigate the complaint if we determine (with concurrence from the member jurisdiction) the investigation is unwarranted
- Contact, visit, and interview the alleged violator, and obtain their response
- Resolve the complaint; either by either by 1) confirming that the complaint is unwarranted, 2) helping to bring the violator into compliance, or, 3) conducting enforcement upon the violator.
- Inform the complainant of the resolution of the complaint
- Maintain records of all complaints and responses for the member jurisdiction's Implementation Record. These records will include the complaint as received, and its resolution.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Documenting Enforcement Actions

We propose to document the results of enforcement activities for each member jurisdiction into Careit. We will document the number of NOVs, penalty orders, and enforcement actions that were resolved, and categorize them by type pursuant to Section 1895.2 (12) (Implementation Record and Recordkeeping Requirements).

Deliverables:

- Documentation of the number of inspections conducted by type for commercial edible food generators and food recovery organizations, the number of complaints pursuant to Section 18995.3 of the adopted guidelines that were received and investigated, and the number of Notices of Violations issued (in partnership with participating cities) based on investigation of those complaints.
- In partnership with member jurisdictions, provide documentation of the number of Notices of Violation, penalty orders, and enforcement actions that were resolved, categorized by type of entity subject to the adopted guidelines. These documents will be provided monthly.

Task 6 · Draft Regional Food Recovery Program Plan

The purpose of this task is to **prepare a Regional Food Recovery Plan.** The Regional Food Recovery Plan will consist of two components:

1) an online real-time peer-to-peer database that will enable food recovery organizations to better connect with Tier 1 and Tier 2 generators (Careit); and,

2) a written plan that quantifies the amount of existing recoverable food by Tier 1 and Tier 2 generators, and by member jurisdiction. This written plan will enable WRCOG to compare how its efforts relate to the State's 20% food rescue goal.

Online Peer-to-Peer Database (Careit)

The online peer-to-peer database of the Regional Food Recovery Plan will include the Tier 1 and Tier 2 generator information collected in Task 2. We propose to provide this information on a real-time basis in Careit, that will be continually accessible to WRCOG, member jurisdictions, and food recovery organizations.

We will provide training, workshops, and access to this online database to all food recovery organizations in and around Western Riverside County. We will work with WRCOG staff, and staff from member jurisdictions, and food service organizations in the use of this online tool. We will review the use of Careit with WRCOG and member jurisdiction staff prior to its approval and implementation.

The online peer-to-peer database will enable food recovery organizations to:

- Receive real-time notifications of edible food available for donations by Tier generators;
- Coordinate the pick-up of the donations;
- Track the status of each donation; and,
- Auto-generate written agreements with generators.

Written Plan

The written plan will calculate how much additional edible food will need to be recovered by generator and by jurisdictions and help WRCOG and its member jurisdictions understand how their efforts will support the 20% state-wide food recovery diversion goal.

We will use the CalRecycle statistics to calculate the potentially recoverable food for each generator (based on our work in Task 2). We will provide insight into targets set by these statistics and create a plan for each generator to increase their donation capacity.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

We will create a detailed report describing each Tier generators donation progress by jurisdiction. This report will enable member jurisdictions to monitor food recovery program participation and direct resources and outreach to increase program participation.

Deliverables:

- Report detailing the program, methodology, tactics to connect food rescue organizations with food waste generators, marketing / outreach, and implementation timeline.

Task 7 · Final Report

The purpose of this task is to provide WRCOG with a summary of the work performed, and an analysis on the status of the food recovery program in a Final Report. The summary will include the information gathered in Task 2, and the total number and detail of outreach activities and inspections performed, organized by member jurisdiction. The analysis will detail the participation of Tier 1 and 2 generators, the food recovery needs and operations of food recovery agencies, and the necessary steps, if any, that member jurisdictions should consider to ensure SB 1383 compliance.

Deliverables:

- Final report

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Budget

Budget and Timeline

We have included our proposed annual non-to-exceed budget for the first contract year of this project in Schedule 1 on the following page. Our budget shows the hours by task and by staff member extended by their hourly rate. This is the proposed cost for Contract Year 1.

We will perform the same scope of work during Contract Year 2, Contract Year 3, and any subsequent Contract Years at hourly rates that are increased by no more than the annual change in the Consumer Price Index. Further, if the level of effort decreases after Contract Year 1, we will negotiate a revised scope of work in good faith with WRCOG and the member jurisdictions.

In Schedule 2, we have included a breakdown of our budget by member jurisdiction. Because of their fixed nature, the total proposed budget amounts for Task 1 (Project Management) and Task 3 (Public Outreach) do not change based on the number of participating jurisdictions.

We propose to bill for this project on a time and material, not-to-exceed basis. Therefore, we will only bill for the hours we work. If our project tasks require less time than anticipated, we will pass the savings on to WRCOG. If WRCOG requests that we perform any additional work outside the scope of work, we will do so at the same hourly rates. We will obtain WRCOG's written approval prior to performing any additional work. We will invoice WRCOG monthly. Our invoices will describe the work performed by each staff member with the hours worked each day extended by the hourly billing rate.

We have included our proposed project timeline in Schedule 3.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Schedule 1 – Hours by Task

Task	Description	Principal MSW Consultants	Principal in Charge/Sr. Communications Manager DeGrave	Project Manager MSW Consultants	Project Manager Mariposa EcoConsulting	Project Analyst MSW Consultants	Account Executive DeGrave	Strategic Visual Designer DeGrave	Project Analyst Mariposa	Outreach Technicians MSW Consultants	Total Hours	Total Cost
1	**Project Management**											
1.1	Kickoff Meeting	5	5	5	5	0	0	0	0	0	20	$4,000
1.2	Project Team Coordination	22	0	32	11	54	0	0	11	86	216	$38,546
1.3	Project Management Update Meetings	10	2	26	2	0	0	0	0	0	40	$7,600
	Subtotal - Task 1	37	7	63	18	54	0	0	11	86	276	$50,146
2	**Capacity and Compliance**											
2.1	Food Recovery Agencies and Organizations	7	0	26	0	33	0	0	0	66	131	$22,598
2.2	Tier 1 and Tier 2 Compliance	23	0	93	0	116	0	0	0	233	465	$80,195
	Subtotal - Task 2	30	0	119	0	149	0	0	0	299	596	$102,793
3	**Public Outreach**											
3.1	Develop Outreach and Education Plan	0	100	0	0	0	82	45	0	0	227	$36,100
3.2	Implement Outreach and Education Plan	0	100	0	0	0	83	45	0	0	228	$36,250
	Subtotal - Task 3	0	200	0	0	0	165	90	0	0	455	$72,350
4	**Inspection Program Development**											
	Subtotal - Task 4	11	0	114	46	57	0	0	0	0	228	$42,750
5	**Inspection Program Implementation**											
	Subtotal - Task 5	95	0	796	95	796	0	0	286	1,114	3,183	$552,569
6	**Food Recovery Program**											
	Subtotal - Task 6	31	0	312	125	156	0	0	0	0	624	$117,000
7	**Final Report**											
	Subtotal - Task 7	15	0	152	61	76	0	0	0	0	304	$57,000
	Total Hours	219	207	1,556	345	1,288	165	90	297	1,499	5,666	
	Hourly Rate	$225	$175	$175	$225	$175	$150	$140	$165	$165		
	Subtotal Fees	$49,284	$36,225	$272,291	$77,735	$225,313	$24,750	$12,600	$49,083	$247,327		$994,607
	Expenses						$5,000			$31,830		$36,830
	Total	$49,284	$36,225	$272,291	$77,735	$225,313	$29,750	$12,600	$49,083	$279,157		$1,031,437

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Schedule 2 – Fees by Jurisdiction

WRCOG Estimated of Regional Food Recovery & Local Assistance Program

Jurisdiction	Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7	Total Fees
Banning	$787	$1,613	$1,214	$671	$13,020	$2,586	$894	$20,785
Beaumont	1,437	2,945	2,216	1,225	19,270	4,462	1,633	33,189
Calimesa	283	580	437	241	2,604	811	322	5,278
Canyon Lake	290	595	448	247	1,042	737	330	3,689
Corona	4,152	8,511	6,404	3,540	56,246	12,927	4,720	96,501
Eastvale	1,855	3,803	2,862	1,582	9,374	4,868	2,109	26,453
Hemet	2,351	4,818	3,626	2,004	26,561	7,014	2,672	49,046
Jurupa Valley	2,780	5,698	4,288	2,370	26,040	7,985	3,160	52,319
Lake Elsinore	1,860	3,813	2,869	1,586	24,478	5,750	2,114	42,470
Menifee	2,766	5,669	4,266	2,358	18,228	7,503	3,144	43,932
Moreno Valley	5,500	11,274	8,484	4,689	64,579	16,552	6,252	117,329
Murrieta	2,937	6,020	4,530	2,504	35,935	8,922	3,338	64,186
Norco	678	1,389	1,045	578	16,145	2,511	770	23,117
Perris	2,075	4,254	3,201	1,769	15,103	5,712	2,359	34,472
Riverside	8,246	16,904	12,720	7,030	96,348	24,790	9,373	175,411
San Jacinto	1,437	2,946	2,217	1,225	17,707	4,373	1,634	31,539
Temecula	2,881	5,906	4,444	2,456	49,476	9,572	3,275	78,010
Wildomar	967	1,981	1,491	824	7,291	2,675	1,099	16,328
Unincorporated (W)	6,865	14,073	10,590	5,853	53,122	19,078	7,804	117,384
Total County	**$50,146**	**$102,793**	**$77,350**	**$42,750**	**$552,569**	**$148,830**	**$57,000**	**$1,031,437**

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Schedule 3 – Project Timeline

Project Schedule - WRCOG
Regional Food Recovery & Local Assistance Program

Task	Description	Contract Year 1												Contract Year 2												Contract Year 3											
		FY 2023			FY 2024												FY 2025												FY 2026										
		A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M
1.1	Kickoff Meeting																																				
1.2	Project Team Coordination																																				
1.3	Project Management Update Meetings																																				
2.1	Food Recovery Agencies and Organizations																																				
2.2	Tier 1 and Tier 2 Compliance																																				
3.1	Develop Outreach and Education Plan																																				
3.2	Implement Outreach and Education Plan																																				
4	Inspection Program Development																																				
5	Inspection Program Implementation - FY 2024:																																				
	Inspect all Tier 1 Generators and FROs																																				
	Inspect all Tier 2 Generators																																				
5	Inspection Program Implementation - FY 2025:																																				
	Inspect all Tier 1 Generators and FROs																																				
	Inspect all Tier 2 Generators																																				
5	Inspection Program Implementation - FY 2026:																																				
	Inspect all Tier 1 Generators and FROs																																				
	Inspect all Tier 2 Generators																																				
6	Food Recovery Program																																				
7	Final Report																																				

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

E. Approach and Understanding of the Scope of Work Plan

Quality Control Methods

Our team uses the following tools and best practices to ensure exceptional quality control as well as budget and schedule control throughout the project.

REGULAR CLIENT CHECK-IN

These regular meetings will allow the WRCOG and our team to share progress updates and next steps to ensure all team members are aligned and that the project continues to move forward and meet all deadlines. Meetings can be held in person or will be held via Zoom calls.

WEEKLY INTERNAL TEAM STRATEGY MEETINGS

These meetings allow the internal team to touch base on project deliverables and timelines.

PROPOSED WORK SCHEDULE

Our team uses Smartsheet for day-to-day project management, timelines, approvals and follow-ups. This system helps us stay on track and accomplish all the required tasks within your desired timeline. We will give your team access to the project management sheets upon project kick-off. Not a fan of Smartsheet? We're happy to use what works best for you.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References

F. Appendix A: References (MSW Consultants)

F. There are no special issues, problems, or risks that are likely to be encountered in this project and how the Proposer would propose to address them.

CITY OF STANTON

CESAR RANGEL

DIRECTOR OF PUBLIC WORKS

(714) 890-4203 · CRANGEL@STANTONCA.GOV

PROJECT: Solid Waste Management Consulting Services

We have been providing solid waste management consulting services to the City since 2021. Our services include providing municipal code revision for solid waste, updating the franchise agreement to conform with SB 1383, negotiate and calculate compensation for any new program from the waste hauler, implementing an edible food recovery program, assist with CalRecycle EAR reporting requirements, assist with applying for any new grant funding opportunities, and develop and implement an inspection and compliance program.

CITY OF RANCHO PALOS VERDES

RAMZI AWWAD

PUBLIC WORKS DIRECTOR – PUBLIC WORKS

(310) 544-5245 · RAWWAD@RPVCA.GOV

PROJECT: Solid Waste and Recycling Consulting Services

In 2020, we conducted a performance review of EDCO Disposal Corporation. Our work included reviewing the hauler's residential operations, customer service, and financial requirements of the franchise agreement. This was our fourth review of EDCO for the City of Rancho Palos Verdes. We have also reviewed the franchise fee payments and AB 341/ AB 1826 compliance of the City's non-exclusive commercial haulers (Republic Services and Waste Management).

As part of our review of the commercial waste haulers, we categorized each hauler's commercial customers, and we confirmed their compliance with AB 341 and AB 1826

CITY OF ORANGE

JOSH SOLIZ

SOLID WASTE PROGRAM MANAGER

(714) 744-5588 · JSOLIZ@CITYOFORANGE.ORG

PROJECT: Franchise Agreement Negotiation with CR&R Hauler

In 2019, we assisted the City in renegotiating its solid waste franchise agreement with CR&R. We are currently assisting the City in managing its solid waste franchise agreement with CR&R Incorporated. Our work includes assisting the City with CalRecycle compliance, and preparing for compliance with SB 1383 including updating the City's solid waste ordinance. MSW Consultants uses a proprietary web-based application Minerva® to assist the City in monitoring the AB 341 and AB 1826 compliance of its commercial and multi-family waste generators.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References (Mariposa Eco Consulting Inc.)

REPUBLIC SERVICES

SUSANNE PASSANTINO

SENIOR AREA MUNICIPAL MARKETING MANAGER

LOS ANGELES

SPASSANTINO@REPUBLICSERVICES.COM

Between 2011 and 2019 Mariposa Eco Consultants has performed over 60,000 on-site business, residential and multifamily audits on behalf of Republic Services, Los Angeles, for the cities of Bell, Cypress, Compton, Inglewood, Hawthorne, Lawndale, San Fernando, Rosemead and the County of Los Angeles Garbage Districts.

LOS ANGELES UNIFIED SCHOOL DISTRICT

STEVE CASARES

MANAGEMENT ANALYST II

SCASARES@LAUSD.NET

Since January 2012, Mariposa Eco Consultants has managed all on-site recycling, training and education development for approximately 1,500 Los Angeles Unified School District Schools facilities.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References (DeGrave Communications, Inc.)

CITY OF FOLSOM

Christine Brainerd, MPA, APR · Communications Director

50 Natoma Way · Folsom, CA 95630

916.461.6013 · cbrainerd@folsom.ca.us

PROJECT: SB 1383 Communications and Outreach Services

This reference and work sample is a demonstration for our capabilities for Task 3.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References

CITY OF FOLSOM

Christine Brainerd, MPA, APR · Communications Director

50 Natoma Way · Folsom, CA 95630

916.461.6013 · cbrainerd@folsom.ca.us

PROJECT: SB 1383 Communications and Outreach Services

This reference and work sample is a demonstration for our capabilities for Task 3.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

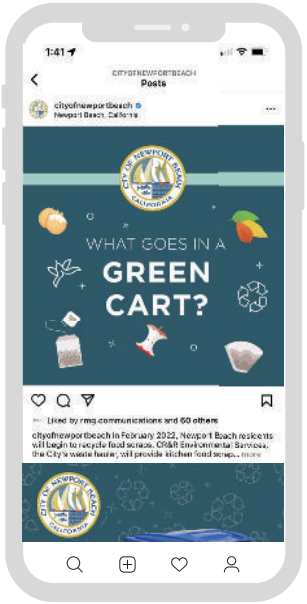
F. Appendix A: References

CITY OF NEWPORT BEACH

John Pope · Communications Manager
100 Civic Center Drive · Newport Beach, CA 92660
949.644.3031 · jpope@newportbeach.ca.gov

PROJECT: SB 1383 Communications and Outreach Services

This reference and work sample is a demonstration for our capabilities for Task 3.



Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References

CITY OF AGOURA HILLS

Ramiro Adeva · Assistant City Manager
30001 Ladyface Court · Agoura Hills, CA 91301
818.597.7353 · radeva@agourahillscity.org

PROJECT: SB 1383 Communications and Outreach Services

This reference and work sample is a demonstration for our capabilities for Task 3.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

F. Appendix A: References

LESJWA

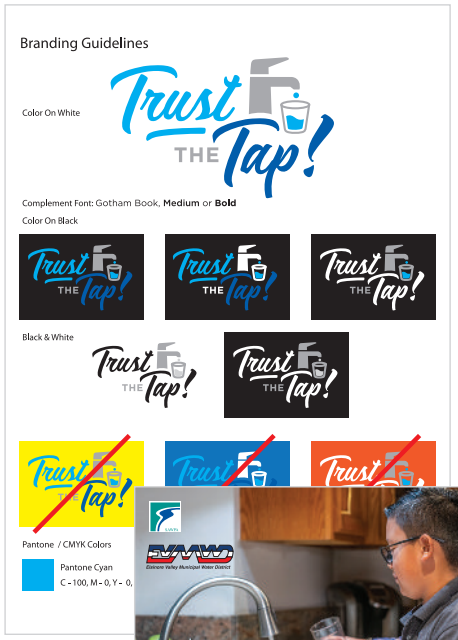
Mark Norton · Water Resources & Planning Manager

11615 Sterling Avenue · Riverside, CA 92503

951-354-4221 · mnorton@sawpa.org

PROJECT: Trust the Tap Campaign

This reference and work sample is a demonstration for our capabilities for Task 3.



Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

G. Appendix B: Project Team Staffing

G. Appendix B: Project Team Staffing

No employees working on the engagement have ever been convicted of a felony.

David Davis
Project Director

Liselle DeGrave, APR
Director

Cynthia Lozano Vant Hul
President

Lucas Arias
Project Manager

Alyson Schill
CEO, Careit

Rachel McGuire, MBA, APR
Sr. Communications Manager

Kyle Vant Hul
Project Analyst

Girard Mobley
Project Analyst

Kayla Friederich
Outreach Technician

Jessica Winn
Account Executive

Ashley Ringger
Strategic Visual Designer

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Education & Credentials

30 Years Experience

Cal State Fullerton

- BA, Finance

Certified Management Accountant (CMA)

Affiliations

Solid Waste Association of North America

Southern California Waste Management Forum (Chair)

Zero Waste Practitioner

David Davis, CMA

Project Director

Mr. David Davis is a Certified Management Accountant (CMA) with over 30 years of experience in the field of solid waste management. Mr. Davis' expertise lies in working with municipal managers to maximize the value of the solid waste services provided to their ratepayers. He has held executive management positions in both the private and public sectors and has extensive experience in providing business advisory services to local government in the field of solid waste management.

As a chief financial executive for local hauling and landfill divisions of a national solid waste management company, Mr. Davis was responsible for financial reporting, budgeting, cost analysis, billing, and collections. He also managed the accounting and rate analysis sections of the City of Riverside's Department of Public Utilities.

Mr. Davis has specific experience in: 1) analysis and design of customer rates for refuse collection, transfer, processing and disposal operations; 2) development and evaluation of competitive proposals for waste collection, recycling, and transfer service; 3) feasibility studies for waste processing, waste transfer, and landfill gas projects; 4) verification of the proper payment of solid waste fees; 5) management reviews of solid waste operations; 6) evaluation of alternative waste diversion programs; 7) solid waste program planning and funding; and, 8) evaluating internal management controls.

ROLE: Mr. Davis will serve as the Project Director for this project. He will be the main point of contact and have overall responsibility for the project. He will direct the planning of the project and attend all meetings.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Lucas Arias

Project Manager

Lucas is a highly effective project manager. He has substantial experience in the waste industry and has served multiple cities across Los Angeles, Orange, Riverside, and Ventura counties. He graduated from California State University, Northridge with a BA in Jazz Studies. Before entering the waste industry, Mr. Arias has performed as a trumpet player and drummer with multiple artists across the country.

Mr. Arias has been with MSW Consultants since January 2022. In that time, he has worked on solid waste consulting engagements for Western Riverside City of Governments (WROCG) and the cities of Corona, Del Mar, La Habra, Lomita, Orange, Rancho Palos Verdes, San Clemente, and Stanton.

Mr. Arias has conducted over 1,500 waste assessments, trained dozens of recycling coordinators, worked on sustainability grants for multiple cities and has conducted several waste characterizations. In addition, he has developed outreach performance internal audit protocols, created diversion reports, and played a key role in SB 1383 roll out and strategic planning for the city of Los Angeles including edible food capacity planning and organics outreach. As an outreach coordinator, Mr. Arias designed creative solutions to unique and complex waste compliance issues.

ROLE: Mr. Arias will serve as Project Manager. He will oversee the day-to-day operation to ensure all milestone and deadlines are met and review all reports for each task on this project. He will serve as task lead for facilitating meetings, assessing capacity and compliance, and developing and implementing the inspection program.

Education & Credentials

5 Years Experience

California State University, Northridge

- BA, Jazz Studies

Affiliations

Solid Waste Association of North America (Member)

Southern California Waste Management Forum (Member)

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Girard Mobley

Project Analyst

Mr. Mobley is a skilled financial and project analyst. He has extensive experience in conducting audits on waste haulers for municipalities, and in providing recycling outreach and education to commercial waste generators. He graduated from San Diego State University with a BS in Business Administration with a focus on Finance and a minor in Economics. He is also a certified practitioner in the zero waste principles and practices.

Mr. Mobley has been with MSW Consultants since March 2019. In that time, he has worked on solid waste consulting engagements for the County of Santa Barbara, and the cities of Corona, Chula Vista, Del Mar, La Habra, La Palma, Lomita, Norco, Orange, Rolling Hills, San Clemente, South Pasadena, Stanton, Signal Hill, Vernon, Whittier, and Rancho Palos Verdes.

Mr. Mobley has audited the accounting records of over 20 waste haulers to include franchise fees verification, tonnage reports, and gross receipts. He prepared hauler franchise agreements to incorporate SB 1383 requirements.

He also oversees the recycling survey program in the city of Vernon providing outreach and educational resources to over 400 commercial waste generators. He regularly educates commercial waste generators about the requirements of AB 341 and AB 1826. Prior to joining MSW Consultants, he served for 20 in the United States Marine Corps.

ROLE: Mr. Mobley will serve as Project Analyst. He will serve as task lead for developing the food recovery program, drafting the final report and assisting as needed for all other tasks.

Education & Credentials

25 Years Experience

San Diego State University

- BS, Finance

Affiliations

Zero Waste Practitioner

California Resource Recovery Association (Member)

Solid Waste Association of North America (Member)

Institute of Internal Auditors (Member)

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Alyson Schill

CEO, Careit App; Outreach Technician

Alyson brings an intimate knowledge of zero food waste to powerfully move initiatives forward. She continues to thrive at the heart of shaping and advocating for city, county, and statewide policies and support for food waste prevention. With a background in volunteer management, gleaning, sustainable event production, environmental service-learning leadership in educational institutions, and restaurant management, Alyson combines experiences from across the food waste chain to create meaningful and comprehensive waste reduction programs. Alyson is the CEO of the food donation app, Careit. She's passionate about reconnecting all members of a community and healing through food.

ROLE: Alyson will assist with onboarding jurisdictions into the Careit app and training. She will also provide technical support during inspections to tier generators.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Kayla Friederich

Outreach Technician

Ms. Kayla Friederich is a diligent project analyst new to the solid waste industry. She has high standards for reporting quality data and providing effective outreach. Before joining MSW Consultants, Ms. Friederich has customer service experience in food service and retail. She has also gained further communication experience through social media creation by interning with The Water Conservation Garden and by assisting her family's small business.

Ms. Friederich has been with MSW consultants since September 2022. In that time, she has conducted outreach for SB 1383 compliance for the City of Stanton and the City of Rancho Palos Verdes. She has also assisted the Western Riverside Council of Government to analyze their edible food tier generator lists.

Ms. Friederich has always been passionate about the environment. Because of this, she earned a BS in Environmental Systems and a Minor in Communication from University of California, San Diego in 2021. She hopes to continue to grow in the solid waste industry and assist jurisdictions with environmental compliance.

ROLE: Ms. Friederich will serve as Outreach Technician. She will assist with capacity and compliance, implementing public outreach, and implementing the inspection program.

Education & Credentials

1 Year Experience

University of California, San Diego

- BS, Environmental Systems
- Minor in Communication

Affiliations

Solid Waste Association of North America (Member)

Southern California Waste Management Forum (Member)

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Education & Credentials

San Diego State University
- B.A., Communications Studies, Emphasis in Public Relations; Minor in Spanish

Universal Accreditation Board
- Accreditation in Public Relations

Affiliations & Awards

Public Relations Society of America Member
- Past Director at Large
- Past Assembly Delegate, Board Member
- **2019 PRSA Spirit of PR Award**

California Association of Public Information Officials Member

PRSA National · Bronze Anvil
- PRessing On in Public Relations · PRessing On in Public Relations Podcast

PRSA Inland Empire Chapter · Best in Show
- PRessing On in Public Relations · PRessing On in Public Relations Podcast

PRSA Inland Empire Chapter Polaris Award · Campaign
- EVMWD/Rancho Water · Water-wise Living Campaign

CAPIO EPIC Award – Campaign
- EVMWD/Rancho Water · Water-wise Living Campaign

PRSA Inland Empire Chapter Polaris Award – Multi-cultural Communications
- SAWPA · Trust the Tap

Liselle DeGrave, APR

Director

DEGRAVE COMMUNICATIONS · PUBLIC RELATIONS ·

A veteran communicator, Liselle has nearly 20 years of experience and her expertise includes spearheading communications, marketing and outreach projects for public-sector, and non-profit clients throughout California. Her background blends both in-house communications and agency expertise to ensure impactful communications strategies for the clients she serves. She will serve as the principal-in-charge.

Areas of Expertise

- Communications Strategies
- Collateral Development
- Public Outreach
- Media Relations
- Community Relations
- Multi-cultural Communications and Outreach
- Branding
- Non-profits

Relevant Experience

ELSINORE VALLEY MUNICIPAL WATER DISTRICT
Communications, Outreach, Water Efficiency, Education and Engineering Projects

WESTERN MUNICIPAL WATER DISTRICT
Communications, Outreach and Education Projects

SCV WATER
Communications and Outreach Projects

CITY OF EASTVALE
Communications, Outreach and Branding Projects

JURUPA COMMUNITY SERVICES DISTRICT
Communications, Outreach and Branding Projects

LAKE ELSINORE AND SAN JACINTO WATERSHEDS AUTHORITY
Communications, Outreach, Events and Branding Projects

ROLE: Will be involved in Task 3 - overseeing the project management for all outreach efforts as well as strategy.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Rachel McGuire, MBA, APR

Sr. Communications Manager

DEGRAVE COMMUNICATIONS
PUBLIC RELATIONS

Rachel is a recognized leader in the field of public relations and communications and brings nearly 20 years of experience working in-house and in an agency setting to this project along with a proven track record of award-winning communications, marketing, outreach and branding strategies. For this engagement, Rachel will serve as the director leading DeGrave Communication's fully integrated team of communications, marketing and outreach professionals.

Areas of Expertise

- Communications Strategies
- Marketing
- Public Outreach
- Media Relations
- Construction Relations
- Collateral Development
- Crisis Communications
- Non-profits

Relevant Experience

ELSINORE VALLEY MUNICIPAL WATER DISTRICT
Communications, Outreach, Water Efficiency, Education and Engineering Projects

RUBIDOUX COMMUNITY SERVICES DISTRICT
Research and Project Administration

SCV WATER
Communications, Outreach, Water Efficiency and Engineering Projects

CITY OF EASTVALE
Communications, Outreach and Media Services

CITY OF AGOURA HILLS
Communications, Outreach, Branding and Crisis Communications Services

CITY OF FOLSOM
Communications, Outreach and Graphic Design Services

ROLE: Will be involved in Task 3 – serving as project manager for all outreach efforts as well as strategy and developing copy.

Education & Credentials

University of Redlands · M.B.A

UCLA B.A. · Communications Studies

Universal Accreditation Board
- Accreditation in Public Relations

Pepperdine University School of Public Policy
- Advanced Public Engagement Certificate

Affiliations & Awards

Public Relations Society of America Member
- San Diego/Imperial Counties Director at Large
- Inland Empire Past President

California Association of Public Information Officials Member
- Past President
- **2016 Communicator of the Year**
- **2019 Lifetime Achievement Award Recipient**

PRSA National · Bronze Anvil
- PRessing On in Public Relations · PRessing On in Public Relations Podcast

PRSA Inland Empire Chapter · Best in Show
- PRessing On in Public Relations · PRessing On in Public Relations Podcast

PRSA Inland Empire Chapter · Best in Show
- Western Municipal Water District · La Sierra Pipeline Project

PRSA Los Angeles Chapter PRism Award · Campaign
- SCV Water · PFAS Outreach

CAPIO - Best in Show
- City of Agoura Hills · Brand Refresh Campaign

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Education & Credentials

Chapman University
- B.A., Organizational Leadership

Affiliations & Awards

Chapman University Alumni Board
- Board Director

Jessica Winn

Account Executive

DEGRAVE COMMUNICATIONS
PUBLIC RELATIONS

Jessica is a leader in the areas of organization administration and marketing. She has a proven track record of effectively supporting the DeGrave Communications team with community engagement, managing project organization and research. For this endeavor she will serve DeGrave Communication's fully integrated team of communications, marketing and outreach professionals to support research efforts.

Areas of Expertise

- Public Outreach
- Community Relations
- Marketing
- Project Administration

Relevant Experience

WESTERN MUNICIPAL WATER DISTRICT
Communications, Outreach and Community Outreach.

ELSINORE VALLEY MUNICIPAL WATER DISTRICT
Communications, Outreach, Water Efficiency, Education and Engineering Projects

RUBIDOUX COMMUNITY SERVICES DISTRICT
Research and Project Administration

HABITAT FOR HUMANITY
Community Outreach, Writing and Marketing

ROLE: Jess Will be involved in Task 3 – serving the team with any member agency requests, scheduling agency workshops and needed organizational support.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Ashley Ringger

Strategic Visual Designer

DEGRAVE COMMUNICATIONS
PUBLIC RELATIONS

Ashley is an accomplished professional in the fields of communications and public affairs. She brings nearly 15 years of experience in community outreach and engagement as well as graphic and website design to RMG Communications. With a passion for public service and working in water, Ashley has designed communications campaigns and collateral for our clients, including program websites, social media content and graphics, fact sheets, water quality reports and Prop. 218 notifications. A gifted storyteller, graphic artist and web designer she will assist with crafting dynamic visuals together with meaningful content for this project.

Areas of Expertise

- Creative Direction
- Infographic Design
- Branding
- Community Relations
- Social Media
- Non-profits
- Digital and Print Media
- Copywriting

Relevant Experience

ELSINORE VALLEY MUNICIPAL WATER DISTRICT
Communications, Outreach, Water Efficiency, Education and Engineering Projects

SCV WATER
Branding and Graphic Design Services

CITY OF NEWPORT BEACH
Communications, Outreach and Graphic Design Services

CITY OF FOLSOM
Communications, Outreach and Graphic Design Services

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT
Social Media Program Management

SANTA ANA WATERSHED PROJECT AUTHORITY
Communications Outreach and Branding

ROLE: Will be involved in Task 3 – designing all needed campaign design elements including, but not limited to e-blasts, social media posts and campaign materials.

Education & Credentials

Brigham Young University
- B.B.A. Marketing

California State University at San Marcos
- Graphic Design

Affiliations & Awards

PRSA – Inland Empire Chapter · Best in Show
- PRessing On in Public Relations · PRessing On in Public Relations Podcast

PRSA – Inland Empire Chapter Polaris Award · Social Media
- San Bernardino Valley MWD · SBVMWD Social Media Program

PRSA – Inland Empire Chapter Capella Award · Campaign
- Jurupa Community Services District · Strategic Communications and Marketing Plan

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Cynthia Lozano Vant Hul

President/Project Manager

Mariposa Eco Consulting, Inc.

Cynthia Lozano Vant Hul (President/Project Manager) is qualified by reasons of education, training background and over 25 years' experience in the solid waste and recycling industry. Cynthia has 14 years' experience providing subcontracting contract services. Cynthia holds a Master of Public Administration degree, from California State University San Bernardino. Since 2003, Cynthia has been a Director with the Southern California Waste Management Forum (SCWMF). In 2022, Cynthia was appointed as the President of the SCWMF. In 2019, she was appointed as a Director to the Women in Solid Waste & Recycling (WISR), new LA Chapter and since 2000 a member in good standings with the California Resource Recovery Association (CRRA).

ROLE: Cynthia will assist with the design of the inspection plan and edible food recovery program.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Kyle Vant Hul

Project Analyst

Mariposa Eco Consulting, Inc.

Kyle Vant Hul (Project Analyst) has 14 years' experience in the solid waste and recycling industry. He is a certified resource, recovery, and recycling consultant. Since 2011, Kyle was the lead recycling trainer for the LAUSD Expanded Recycling program. Kyle have led numerous comprehensive City audits in the Los Angeles, Orange, and Imperial Counties and in the Los Angeles County Garbage Districts. In 2017/2018 Kyle led sixteen Zero Waste Representatives in the Northeast Valley (NEV) City of Los Angeles, recycLA program. Today, Kyle provides the "On the Ground" daily assistance with the Recycling Coordinator staff within the LA Market in completing site assessments, program implementation and training.

ROLE: Kyle will assist with the implementation of the inspection program.

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

H. Appendix C: Company Overview

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

H. Appendix C: Company Overview

PRIME

MSW Consultants · S-Corp · DUNS 028466375
41760 Ivy St., Suite 203 · Murrieta, California 92562
951.694.400 · David Davis, CMA · David@MSW-Consultants.com

MSW Consultants provides solid waste consulting services exclusively to local governments in the areas of finance, economics, and public policy. Our mission is to work with municipal managers to maximize the value of the solid waste services that are delivered to their ratepayers. MSW Consultants was founded in 2000 by David L. Davis, CMA. In his over 30 years in the solid waste industry, Mr. Davis has provided a broad range of solid waste consulting services to over 80 cities, counties and special districts in the areas of auditing, contract negotiation, rate setting, competitive service procurement, contract compliance, waste diversion, and regulatory compliance. MSW Consultants is located in the City of Murrieta and is a California corporation.

MSW Consultants performs the following services for local governments:

- AB 341 and AB 1826 compliance
- SB 1383 compliance planning
- Design and implementation of waste diversion programs
- Performance audits of franchised waste haulers
- Contract negotiation and procurement assistance
- Rates studies for collection, processing, transfer and disposal service
- Solid waste program planning and design
- Reviews of contractor's requests for rate increases
- Route audits and routing efficiency studies

SUBCONSULTANT

DeGrave Communications · S-Corp · DUNS 079239610
40575 Cal Oaks Rd. D2-137 · Murrieta, CA 92592
951-764-0865 · Liselle DeGrave, APR · Liselle@DeGravePR.com

DeGrave Communications Overview

Formed in 2004, DeGrave Communications is an award winning, full-service public relations firm. For over 15 years, DeGrave Communications has worked with its clients to provide public relations strategic consulting service. DeGrave Communications emphasizes the need for starting all outreach with a research component and this holds true for every project implemented by the firm, despite budget.

Our top team members have specialized experience working with organizations throughout California. In addition, our firm is headed up by award-winning public relations professionals who hold the elite Accreditation in Public Relations to ensure our clients receive the highest level of service focused on multifaceted, precise and measurable communications strategies for our clients.

Our carefully curated team for this project has worked with clients in California, nationally and internationally producing exceptional results.

We know Public Relations and Public Agencies. We are a one-of-a-kind Public Relations Firm.

Each member of our hand-picked team for this project has the availability and expertise to meet the WRCOG's member agency outreach needs. We are committed to flexibility and changes to your scope and schedule and will ensure that all projects are finished on time and on budget.

DeGrave Communications is a small business, S-Corporation located in

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

H. Appendix C: Company Overview

Murrieta, CA. The firm is registered with the U.S. federal government as a minority-owned, women-owned, emerging small business, the California Department of General Services as a certified small business and with the California Public Utilities Commission as a Woman/Minority Business Enterprise (WMBE). DeGrave Communications is also a registered DBE organization.

SUBCONSULTANT

Mariposa Eco Consulting, Inc. · C-Corp · DUNS 010891685
1618 Fairway Oaks Ave. · Banning, California 92220
909-560-0542 · 909-912-8407 [fax]
Cynthia Lozano Vant Hul · cynthia@mariposaecoconsulting.com

Mariposa Eco Consulting integrates all aspects of an environmental management firm including air, water, solid waste, sustainable program management, energy, greenhouse gas reduction and measurement, hazardous waste and universal waste management, and resource conservation. We assist our clients with seeing the benefits of a sustainable earth; complying with and improving upon environmental laws, while generating profits and growth.

Mariposa Eco Consulting works with all aspects of businesses, local government and communities to design, develop, and implement sustainable programs that work. We take the time to understand the specific circumstances of our clients, including demographics, economics, and environmental factors, allowing our clients to realize profits and compliance.

Our work has included:

- Corporate Sustainability Reports
- All Levels of Waste Audits (Commercial, Residential, Multi-family and Industrial)
- Outreach and Education
- Representation with local and state agencies
- Waste minimization
- Waste prevention programs and market development
- Compliance and Electronic Annual Reporting
- Greenhouse Gas emission measurement and verification

Attachment: MSW Consultants bid (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT

Attachment: WRCOG MoVal Program Agreement - Draft (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE

WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS
REGIONAL EARLY ACTION PLANNING ('REAP") LOCAL STAFF ASSISTANCE PROGRAM AGREEMENT

1. Parties and Date.

This Agreement is made and entered into this _____ day of ____, 2023, by and between the Western Riverside Council of Governments, a California public agency ("WRCOG") and City of Moreno Valley ("Member Agency"), City Government, whose address is 14177 Frederick St, Moreno Valley, CA 92553. WRCOG and Member Agency are sometimes individually referred to as "Party" and collectively as "Parties."

2. Recitals.

2.1 Member Agency.

The Member Agency desires to participate in the Regional Food Recovery and Local Assistance program and made possible through WRCOG's REAP GRANT (the "Program") in order to receive certain on-call professional services as provided by WRCOG via its chosen consultant pursuant to the terms and conditions set forth in this Agreement and in the task order(s) to be issued pursuant to this Agreement and executed by the parties ("Task Order").

3. Terms.

3.1 Scope of Services and Term. Member Agency has requested WRCOG to provide certain professional service ("Services") offered under the Program.

3.1.1 Term. The term of this Agreement shall be from [INSERT DATE] to [INSERT DATE], unless earlier terminated as provided herein.

3.1.2 Services. The Services to be provided under this agreement shall be set forth in Task Orders approved by WRCOG and the Member Agency. The Task Order shall include a description of the Services, the requested schedule for the Services, the Consultant assigned to perform the Services ("the Consultant"), the expected product and the maximum budget for the Services provided under the Task Order. The maximum cost of Consultant's work provided to the Member Agency shall not exceed the maximum budget set forth in the Task Order without the written approval from WRCOG.

3.2 Insurance. WRCOG shall require the Consultant to procure and maintain, at its own expense, for the duration of the Agreement insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Agreement by the Consultant, its agents, representatives, employees or subcontractors. Consultant shall also require its subcontractors to procure and maintain the same insurance for the duration of the Agreement. Such insurance shall give both WRCOG and the Member Agency insured status.

DRAFT

Attachment: WRCOG MoVal Program Agreement - Draft (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE

3.3 General Provisions.

3.3.1 Termination of Agreement.

(a) Grounds for Termination. WRCOG or the Member Agency may terminate the whole or any part of this Agreement at any time and without cause by giving written notice of such termination, and specifying the effective date thereof, at least ninety (90) days before the effective date of such termination.

3.3.2 Delivery of Notices. All notices permitted or required under this Agreement shall be given to the respective Parties at the following address, or at such other address as the respective parties may provide in writing for this purpose:

Member Agency: City of Moreno Valley
Attn: Purchasing & Sustainability Manager
14177 Frederick St
Moreno Valley, CA 92553

WRCOG: Western Riverside Council of Governments
3390 University Ave., Suite 200
Riverside, CA 9501
Attn: Kurt Wilson
Phone: 951-405-6701

Such notice shall be deemed made when personally delivered or when mailed, forty-eight (48) hours after deposit in the U.S. Mail, first class postage prepaid and addressed to the Party at its applicable address. Actual notice shall be deemed adequate notice on the date actual notice occurred, regardless of the method of service.

3.3.3 Cooperation; Further Acts. The Parties shall fully cooperate with one another, and shall take any additional acts or sign any additional documents as may be necessary, appropriate or convenient to attain the purposes of this Agreement.

3.3.4 Attorney's Fees. If either Party commences an action against the other Party, either legal, administrative or otherwise, arising out of or in connection with this Agreement, the prevailing party in such litigation shall be entitled to have and recover from the losing party reasonable attorney's fees and all other costs of such action.

3.3.5 Indemnification. WRCOG's agreement with the Consultant shall require the Consultant to defend, indemnify and hold the Member Agency, its officials, officers, employees, volunteers and agents free and harmless from any and all claims, demands, causes of action, costs, expenses, liability, loss, damage or injury, in law or equity, to property or persons, including wrongful death, in any manner arising out of or incident to the Services provided by the Consultant under the Program.

DRAFT

Attachment: WRCOG MoVal Program Agreement - Draft (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE

3.3.6 Entire Agreement. This Agreement contains the entire Agreement of the Parties with respect to the subject matter hereof, and supersedes all prior negotiations, understandings or agreements. This Agreement may only be modified by a writing signed by both Parties.

3.3.7 Governing Law. This Agreement shall be governed by the laws of the State of California. Venue shall be in Riverside County.

3.3.8 Time of Essence. Time is of the essence for each and every provision of this Agreement.

3.3.9 Successors and Assigns. This Agreement shall be binding on the successors and assigns of the Parties.

3.3.10 Assignment or Transfer. Consultant shall not assign, hypothecate, or transfer, either directly or by operation of law, this Agreement or any interest herein without the prior written consent of WRCOG. Any attempt to do so shall be null and void, and any assignees, hypothecates or transferees shall acquire no right or interest by reason of such attempted assignment, hypothecation or transfer.

3.3.11 Construction; References; Captions. Since the Parties or their agents have participated fully in the preparation of this Agreement, the language of this Agreement shall be construed simply, according to its fair meaning, and not strictly for or against any Party. Any term referencing time, days or period for performance shall be deemed calendar days and not work days. All references to the Member Agency include all personnel, employees, agents, and subcontractors of Consultant, except as otherwise specified in this Agreement. All references to WRCOG include its elected officials, officers, employees, agents, and volunteers except as otherwise specified in this Agreement. The captions of the various articles and paragraphs are for convenience and ease of reference only, and do not define, limit, augment, or describe the scope, content, or intent of this Agreement.

3.3.12 Amendment; Modification. No supplement, modification, or amendment of this Agreement shall be binding unless executed in writing and signed by both Parties.

3.3.13 Waiver. No waiver of any default shall constitute a waiver of any other default or breach, whether of the same or other covenant or condition. No waiver, benefit, privilege, or service voluntarily given or performed by a Party shall give the other Party any contractual rights by custom, estoppel, or otherwise.

3.3.14 No Third Party Beneficiaries. There are no intended third party beneficiaries of any right or obligation assumed by the Parties.

3.3.15 Invalidity; Severability. If any portion of this Agreement is declared invalid, illegal, or otherwise unenforceable by a court of competent jurisdiction, the remaining provisions shall continue in full force and effect.

DRAFT

3.3.16 Authority to Enter Agreement. Consultant has all requisite power and authority to conduct its business and to execute, deliver, and perform the Agreement. Each Party warrants that the individuals who have signed this Agreement have the legal power, right, and authority to make this Agreement and bind each respective Party.

3.3.17 Counterparts. This Agreement may be signed in counterparts, each of which shall constitute an original.

[SIGNATURES ON FOLLOWING PAGE]

DRAFT

Attachment: WRCOG MoVal Program Agreement - Draft (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE

SIGNATURE PAGE
TO
WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS
AGREEMENT FOR ON-CALL PLANNING SERVICES

IN WITNESS WHEREOF, the Parties hereby have made and executed this Agreement as of the date first written above.

WESTERN RIVERSIDE COUNCIL OF GOVERNMENTS	City of Moreno Valley
By: _____	By: _____
Kurt Wilson Executive Director	Mike Lee City Manager

APPROVED AS TO FORM:

By: _____
General Counsel
Best Best & Krieger LLP

By: _____
City Attorney
City of Moreno Valley

DRAFT

Attachment: WRCOG MoVal Program Agreement - Draft (6210 : APPROVE THE 3-YEAR MEMORANDUM OF AGREEMENT BETWEEN THE

Report to City Council

TO:	Mayor and City Council
FROM:	Kenneth Reichle, Chief of Police
AGENDA DATE:	April 18, 2023
TITLE:	APPROVAL TO USE ASSET FORFEITURE FUNDS TO PURCHASE A THERMO SCIENTIFIC UNLIMITED HAND-HELD NARCOTICS ANALYZER IN FY 2022/23

RECOMMENDED ACTION

Recommendations:

1. Authorize the Police Department to purchase one new Thermal Scientific-TruNarc Unlimited Handheld Narcotics Analyzer (TruNarc), at a cost of $29,160.38 ($27,063.00 for the equipment and warranty, plus $2,097.38 sales tax).

2. Authorize a budget adjustment as set forth in the Fiscal Impact section of this report.

SUMMARY

This report recommends the City Council authorize the Police Department to purchase the TruNarc, for a cost of $29,160.38. This cost includes the TruNarc device and 3-year warranty.

TruNarc offered by Thermal Scientific provides safe and accurate analysis of narcotics, which has now become increasingly important as a measure to mitigate the dangers of exposure to certain narcotics. Additionally, requirements by the Riverside County District Attorney's Office include a preliminary analysis of narcotics when filing narcotics related cases. This is the only technology available to provide a safe and initial analysis of dangerous and illegal substances. Additionally, this purchase ensures continuity of operations as the Riverside County Sheriff Department is utilizing this tool in its operations.

DISCUSSION

The global drug problem is verifiably at an all-time high with trafficking of methamphetamines, heroin, and emerging threats like fentanyl, and carfentanil, impacting communities worldwide. Riverside County and the City of Moreno Valley are not immune. Law enforcement officials need to quickly identify suspected narcotics in the field to help keep drugs, and drug dealers off the streets. As a result, and to increase the number of convictions, the Riverside County District Attorney's Office requires a presumptive test of all narcotics prior to filing narcotics cases.

Prior to the requirement, due to the increasing dangers of handling narcotics that may contain fentanyl, several agencies began to conduct their investigations without conducting preliminary drug-recognition tests in the field and used their training and experience in drug recognition for filing purposes. However, beginning in April 2022, the District Attorney's Office would no longer accept cases for filing unless a field-test was completed verifying the type of narcotics in the suspect's possession or a full admission from the suspect.

There is, unfortunately, a significant need in Moreno Valley to be able to conduct these field tests. To provide some perspective, in 2022 the Moreno Valley Police Department (Moreno Valley Sheriff's Station) conducted 1,431 drug related investigations for possession, possession for sales and under the influence. There were also 128 drug overdose investigations with at least six (6) leading to the death of the user. Two (2) of the overdose investigations led to homicide charges being filed on the dealer. There has been one deputy who had an exposure to fentanyl who luckily only suffered minor symptoms. With this technology, narcotics can be tested anywhere in the field or station and provides a significantly increased level of safety for personnel.

The law enforcement community has established that TruNarc has been the only proven way to conduct these field-test without personnel becoming exposed.

The Thermo Scientific™ TruNarc™ handheld analyzer enables law enforcement and other personnel to scan more than 498 suspected controlled substances in a single, definitive test.

With the TruNarc, the accuracy and reliability of a narcotics and drug test lab are available anywhere. With this handheld drug detector, narcotics, stimulants, depressants, hallucinogens, and analgesics are easily identified using lab-proven Raman spectroscopy. It Identifies more than 300 of the highest priority illicit and abused narcotics in a single drug test, saving time and money. A single drug test for multiple controlled substances provides clear, definitive results for presumptive identification with no user interpretation. Trained law enforcement personnel can scan directly through plastic or glass for most drug test samples to minimize contamination, reduce exposure, and preserve evidence. TruNarc Administration captures all scan and self-check results to help support prosecution.

ALTERNATIVES

Council has the following alternatives:

1. Authorize the Police Department to purchase the Thermo Scientific TruNarc Handheld Narcotics Analyzer, with a not-to-exceed of $29,160.38 from Asset Forfeiture Funds, which includes all related equipment, software, warranty, and costs. *Staff recommends this alternative.*

2. Do not authorize the Police Department to purchase the TruNarc Handheld Narcotics Analyzer, with Thermo Scientific not to exceed $29,160.38 of Asset Forfeiture Funds, which includes all related equipment, software, warranty, and costs. *Staff does not recommend this alternative.*

FISCAL IMPACT

The Police Department is requesting the Moreno Valley City Council to approve the use of Asset forfeiture funding held by the County of Riverside to purchase the TruNarc Handheld Narcotics Analyzer. Funding for this purchase will, if approved, not have an impact on the City's General Fund in FY 2022/23. The requested FY 2022/23 budget appropriation will be as follows:

Description	Fund	GL Account No.	Type (Rev/Exp)	FY 22/23 Proposed Amendment	FY 22/23 Amended Budget
Asset Forfeiture Revenue (from County)	Gen. Fund	1010-60-65-40010-480150	Rev	$29,160	$294,963
TruNarc Handheld Narcotics Analyzer	Gen. Fund	1010-60-65-40010-625010	Exp	$29,160	$34,160

PREPARATION OF STAFF REPORT

Prepared By:
Tyson Voss
Administration Lieutenant

Department Head Approval:
Ken Reichle
Chief of Police

Concurred By:
Shanna Palau
Senior Contracts Analyst

CITY COUNCIL GOALS

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

CITY COUNCIL STRATEGIC PRIORITIES

1. Economic Development

2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" **on the left hand side of this document for the necessary attachment.**

1. Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004)

APPROVALS

Budget Officer Approval	✓ Approved	4/11/23 8:20 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/11/23 9:29 AM

Sales Quotation

Quote Number	Created Date	Exp. Delivery Terms	Page
00301633	04/03/2023	ARO	1 / 7
Contact:	**Phone**	**Payment Term**	**Valid To**
Geno Ferrera	(951) 326-0405	Net 30 Pending Approval	04/30/2023
Inco Terms		**Shipping Method**	
FOB Origin - Tewksbury Ma.		Fed Ex	

Thermo Scientific Portable Analytical Instruments Inc.
2 Radcliff Rd
Tewksbury, Massachusetts 01876
United States

Submitted To:

Kevin Lamb
Riverside Sheriff – Special Investigations Bureau
1500 Castellano Road
Jurupa Valley, California 92509
United States

Phone:
Email: klamb@riversidesheriff.org

THANK YOU FOR YOUR INTEREST IN THERMO SCIENTIFIC INSTRUMENTATION

To Place an Order:
Contact: Geno Ferrera
Phone: (951) 326-0405
Fax:
Email: geno.ferrera@thermofisher.com
Additional instructions, terms & conditions on last page

Pos.	Product Code	Product Name	List Price	Discount	Disc %	Sales Price	Quantity	Total Pric
1.00	800-01013-01	**TruNarc, Unlimited, Warranty - 3 Yrs**	USD 28,800.00	USD 1,737.00	6.03%	USD 27,063.00	1.00	US 27,063.(

TruNarc Unlimited Model with 3 years of warranty. Includes factory repair, loaner units when available and 24/7 technical support. Companion PC TruNarc admin software, unlimited access to TruNarc eLearning course and free basic software updates to core narcotics library are provided for the life of the instrument.

Subtotal:	**US 28,800.(**
Tax:	**USD 2,097.**
Discount:	**USD 1,737.(**
Total:	**US 29,160.**

Additional Comments:

Ship To

Moreno Valley Station

22850 Calle San Juan de los Lagos

Moreno Valley CA 92553

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

When applicable, commodities, technology, or software to be provided in furtherance of this order shall be exported from the United States in accordance with applicable U.S export laws or regulations. Diversion contrary to US law prohibited. Unless otherwise agreed to in writing, Thermo Scientific Portable Analytical Instruments Inc. terms and conditions shall apply and take precedence.

A part of: ThermoFisher SCIENTIFIC

Excludes Taxes and Import Fees

Fully Insured 2nd Day Federal Express delivery in U.S., Canada, and Puerto Rico

Important Note: Please issue POs to Thermo Scientific Portable Analytical Instruments Inc
Federal Tax ID No.: 01-0650031
CAGE CODE: 392A9
DUNS #: 11-289-3131
Bank of America ABA# for Wire Payments: 026 009 593
Bank of America ABA# for ACH Payments: 111 000 012
Beneficiary Account Number: 4426843850

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

When applicable, commodities, technology, or software to be provided in furtherance of this order shall be exported from the United States in accordance with applicable U.S export laws or regulations. Diversion contrary to US law prohibited. Unless otherwise agreed to in writing, Thermo Scientific Portable Analytical Instruments Inc. terms and conditions shall apply and take precedence.

A part of: ThermoFisher SCIENTIFIC

Acceptance of Purchase | Quote: GF-00301633

By signing below, you (i) warrant that you are an authorized representative of your company, (ii) agree that the Thermo Scientific Portable Analytical Instruments Inc. Terms and Conditions of Sale attached hereto (the "Terms and Conditions") shall supersede any preprinted terms and conditions, in their entirety, contained in any purchase order that your company issues and (iii) the Terms and Conditions shall exclusively govern the transaction(s) contemplated hereby

Signature of authorized company representative	Date	Phone#
Print Name	Title	Email
Model #	Amount + S&H	Purchase Order Number

E-mail to: **PAIglobalcustomerservice@thermofisher.com**

Fax to: 1-877-680-2568

Order Processing Address:
geno.ferrera@thermofisher.com
Thermo Scientific Portable Analytical Instruments Inc
2 Radcliff Road
Tewksbury, MA 01876

Remit check Payment To:
Thermo Scientific Portable Analytical Instruments Inc
PO Box 415918
Boston, MA 02241-415918

Payment Details

Method of Payment

- ☐ Net 30 (Attach Credit Application & Credit References)
- ☐ Credit Card
- ☐ Check
- ☐ Wire Transfer

Sales Tax Application

- ☐ Yes Apply Sales Tax
- ☐ No

- If no, you must provide a copy of your tax exemption certificate along with your purchase order.

****Please contact your customer service representative with your credit card information. (Do not send any credit card info via email or fax.)****

Address Verification

Please make corrections if necessary below:

Bill to:

Riverside Sheriff – Special Investigations Bureau
1500 Castellano Road
Jurupa Valley, California 92509
United States

Ship to:

Riverside Sheriff – Special Investigations Bureau
1500 Castellano Road
Jurupa Valley, California 92509
United States

Additional Options / Accessories

Please use the space below to note any additional options and/or accessories you wish to add from the attached sheets that are not included in the above quotation.

_____
_____
_____
_____

When applicable, commodities, technology, or software to be provided in furtherance of this order shall be exported from the United States in accordance with applicable U.S export laws or regulations. Diversion contrary to US law prohibited. Unless otherwise agreed to in writing, Thermo Scientific Portable Analytical Instruments Inc. terms and conditions shall apply and take precedence.

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

THERMO SCIENTIFIC PORTABLE ANALYTICAL INSTRUMENTS INC – TERMS AND CONDITIONS O

Last revised November 2019

UNLESS OTHERWISE EXPRESSLY AGREED IN WRITING, ALL SALES ARE SUBJECT TO THE FOLLOWING TERMS AND CONDITIONS:

1. GENERAL. Thermo Scientific Portable Analytical Instruments Inc ("Seller") hereby offers for sale to the buyer named on the face hereof ("Buyer") the products listed on the face hereof (the "Products") on the express condition that Buyer agrees to accept and be bound by the terms and conditions set forth herein. Any provisions contained in any document issued by Buyer are expressly rejected and if the terms and conditions in this agreement (the "Agreement") differ from the terms of Buyer's offer, this document shall be construed as a counter offer and shall not be effective as an acceptance of Buyer's document. Buyer's receipt of Products or Seller's commencement of the services provided hereunder will constitute Buyer's acceptance of this Agreement. This is the complete and exclusive statement of the contract between Seller and Buyer with respect to Buyer's purchase of the Products. No waiver, consent, modification, amendment or change of the terms contained herein shall be binding unless in writing and signed by Seller and Buyer. Seller's failure to object to terms contained in any subsequent communication from Buyer will not be a waiver or modification of the terms set forth herein. All orders are subject to acceptance in writing by an authorized representative of Seller.

2. PRICE. All prices published by Seller or quoted by Seller's representatives may be changed at any time without notice. All prices quoted by Seller or Seller's representatives are valid for thirty (30) days, unless otherwise stated in writing. All prices for the Products will be as specified by Seller or, if no price has been specified or quoted, will be Seller's price in effect at the time of shipment. All prices are subject to adjustment on account of specifications, quantities, raw materials, cost of production, shipment arrangements or other terms or conditions, which are not part of Seller's original price quotation.

3. TAXES AND OTHER CHARGES. Prices for the Products exclude all sales, value added and other taxes and duties imposed with respect to the sale, delivery, or use of any Products covered hereby, all of which taxes and duties must be paid by Buyer. If Buyer claims any exemption, Buyer must provide a valid, signed certificate or letter of exemption for each respective jurisdiction. Buyer shall be solely responsible for obtaining any and all necessary licenses, registrations, certificates, permits, approvals or other authorizations required by federal, state or local statute, law or regulation pertaining to the use or possession of the products contemplated herein that include radioactive isotopes, or x-ray tubes if any.

Buyer shall pay Seller such surcharges, or other fees, in respect of the sale of Products hereunder as Seller deems necessary and appropriate (in Seller's sole, good-faith, reasonable discretion) to account for changes in the cost to product, develop, market, or sell the Products to Buyer hereunder (whether as the result of the imposition of tariffs or otherwise). All such surcharges must be paid by Buyer in accordance with the payment terms set forth herein. Buyer agrees that such surcharges, or other fees, or any termination thereof, shall take effect immediately upon written notice thereof by Seller to Buyer. In the event that Seller's quote and/or order acknowledgement set forth surcharges, those documents shall be considered adequate written notice to Buyer that said surcharges are Buyer's responsibility. Any such surcharges shall not constitute an increase in the Price(s) of any Products or Services sold under this Agreement

4. TERMS OF PAYMENT. Seller may invoice Buyer upon shipment for the price and all other charges payable by Buyer in accordance with the terms on the face hereof. If no payment terms are stated on the face hereof, payment shall be net thirty (30) days from the date of invoice. If Buyer fails to pay any amounts when due, Buyer shall pay Seller interest thereon at a periodic rate of one and one-half percent (1.5%) per month (or, if lower, the highest rate permitted by law), together with all costs and expenses (including without limitation reasonable attorneys' fees and disbursements and court costs) incurred by Seller in collecting such overdue amounts or otherwise enforcing Seller's rights hereunder. Seller reserves the right to require from Buyer full or partial payment in advance, or other security that is satisfactory to Seller, at any time that Seller believes in good faith that Buyer's financial condition does not justify the terms of payment specified. All payments shall be made in U.S. Dollars.

5. DELIVERY CANCELLATION OR CHANGES BY BUYER. The Products will be shipped to the destination specified by Buyer, F.O.B. shipping point. Seller will have the right, at its election, to make partial shipments of the Products and to invoice each shipment separately. Seller reserves the right to stop delivery of Products in transit and to withhold shipments in whole or in part if Buyer fails to make any payment to Seller when due or otherwise fails to perform its obligations hereunder. All shipping dates are approximate only, and Seller will not be liable for any loss or damage resulting from any delay in delivery or failure to deliver which is due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control, Seller reserves the right to terminate the order or to reschedule the shipment within a reasonable period of time, and Buyer will not be entitled to refuse delivery or otherwise be relieved of any obligations as the result of such delay. Products as to which delivery is delayed due to any cause within Buyer's control may be placed in storage by Seller at Buyer's risk and expense and for Buyer's account. Orders in process may be canceled only with Seller's written consent and upon payment of Seller's cancellation charges. Orders in process may not be changed except with Seller's written consent and upon agreement by the parties as an appropriate adjustment in the purchase price therefor. Credit will not be allowed for Products returned without prior written consent of seller.

6. RETURN OF PRODUCTS/RESTOCKING CHARGE. Buyer must obtain permission from Seller prior to returning Products. The request must be received within ten (10) days of receipt of the Products. Older items, service parts, and discontinued items cannot be returned for credit. In order to obtain a RMA number, Buyer must contact Seller's customer support. Seller, in its discretion, may impose a twenty (20%) percent restocking charge of the price paid for any item authorized for return for credit

7. TITLE AND RISK OF LOSS. Notwithstanding the trade terms indicated above and subject to Seller's right to stop delivery of Products in transit, title to and risk of loss of the Products will pass to Buyer upon delivery of possession of the Products by Seller to the carrier irrespective of which Party's carrier is used for the transport or the manner of payment ascribed to the transport; provided, however, that title to any software incorporated within or forming a part of the Products shall at all times remain with Seller or the licensor(s) thereof, as the case may be.

8. WARRANTY. Seller warrants that the Products will operate or perform substantially in conformance with Seller's published specifications and be free from defects in material and workmanship, when subjected to normal, proper and intended usage by properly trained personnel, for the period of time set forth in the product documentation, published specifications or package inserts. If a period of time is not specified in Seller's product documentation, published specifications or package inserts, the warranty period shall be one (1) year from the date of shipment to Buyer for equipment and ninety (90) days for all other products (the "Warranty Period"). During the Warranty Period, Seller agrees, in its sole discretion, to repair or replace, Products and/or provide additional parts or services as reasonably necessary to cause the same to perform in substantial conformance with said published specifications; provided that Buyer shall (a) promptly notify Seller in writing upon the discovery of any defect, which notice shall include the product model and serial number (if applicable) and details of the warranty claim; and (b) after Seller's review, Seller will provide Buyer with service data and /or a Return Material Authorization ("RMA), which may include biohazard decontamination procedures and other product-specific handling instructions, then, if applicable, Buyer may return the defective Products to Seller with all costs prepaid by Buyer. Replacement parts may be new or refurbished, at the election of Seller. All replaced

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

the property of Seller. Shipment to Buyer of repaired or replacement Products shall be made in accordance with the Delivery provisions of Seller's Terms and Conditions of Sale. Consumables are expressly excluded from this warranty. If Seller elects to repair defective device instruments, Seller may, in its sole discretion, provide a replacement loaner instrument to Buyer as necessary for use while the instruments are being repaired. Notwithstanding the foregoing, Products supplied by Seller that are obtained by Seller from an original manufacturer or third party supplier are not warranted by Seller, but Seller agrees to assign to Buyer any warranty rights in such Product that Seller may have from the original manufacturer or third party supplier, to the extent such assignment is allowed by such original manufacturer or third party supplier. In no event shall Seller have any obligation to make repairs, replacements or corrections required, in whole or in part, as the result of (i) normal wear and tear, (ii) accident, disaster or event of force majeure, (iii) misuse, fault or negligence of or by Buyer, (iv) use of the Products in a manner for which they were not designed, (v) causes external to the Products such as, but not limited to, power failure or electrical power surges, (vi) improper storage and handling of the Products or (vii) use of the Products in combination with equipment or software not supplied by Seller. If Seller determines that Products for which Buyer has requested warranty services are not covered by the warranty hereunder, Buyer shall pay or reimburse Seller for all costs of investigating and responding to such request at Seller's then prevailing time and materials rates. If Seller provides repair services or replacement parts that are not covered by this Warranty shall pay Seller therefor at Seller's then prevailing time and materials rates.

ANY INSTALLATION, MAINTENANCE, REPAIR, SERVICE, RELOCATION OR ALTERATION TO OR OF, OR OTHER TAMPERING WITH, THE PRODUCTS PERFORMED BY ANY PERSON OR ENTITY OTHER THAN SELLER WITHOUT SELLER'S PRIOR WRITTEN APPROVAL, OR ANY USE OF REPLACEMENT PARTS NOT SUPPLIED BY SELLER, SHALL IMMEDIATELY VOID AND CANCEL ALL WARRANTIES WITH RESPECT TO THE AFFECTED PRODUCTS. THE OBLIGATIONS CREATED BY THIS WARRANTY STATEMENT TO REPAIR OR REPLACE A DEFECTIVE PRODUCT SHALL BE THE SOLE REMEDY OF BUYER IN THE EVENT OF A DEFECTIVE PRODUCT. EXCEPT AS EXPRESSLY PROVIDED IN THIS WARRANTY STATEMENT, SELLER DISCLAIMS ALL OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, ORAL OR WRITTEN, WITH RESPECT TO THE PRODUCTS, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE PRODUCTS ARE ERROR-FREE OR WILL ACCOMPLISH ANY PARTICULAR RESULT.

9. INDEMNIFICATION

9.1. By Seller. Seller agrees to indemnify, defend and save Buyer, its officer, directors, and employees from and against any and all damages, liabilities, actions, causes of action, suits, claims, demands, losses, costs and expenses (including without limitation reasonable attorney's fees) ("Indemnified Items") for (i) injury to or death of persons or damage to property to the extent caused by the negligence or willful misconduct of Seller, its employees, agents or representatives or contractors in connection with the performance of services at Buyer's premises under this Agreement and (ii) claims that a Product infringes any valid United States patent, copyright or trade secret; provided, however, Seller shall have no liability under this Section to the extent any such Indemnified Items are caused by either (i) the negligence or willful misconduct of Buyer, its employees, agents or representatives or contractors, (ii) by any third party, (iii) use of a Product in combination with equipment or software not supplied by Seller where the Product would not itself be infringing, (iv) compliance with Buyer's designs, specifications or instructions, (v) use of the Product in an application or environment for which it was not designed or (vi) modifications of the Product by anyone other than Seller without Seller's prior written approval. Buyer shall provide Seller prompt written notice of any third party claim covered by Seller's indemnification obligations hereunder. Seller shall have the right to assume exclusive control of the defense of such claim or, at the option of the Seller, to settle the same. Buyer agrees to cooperate reasonably with Seller in connection with the performance by Seller of its obligations in this Section.

Notwithstanding the above, Seller's infringement related indemnification obligations shall be extinguished and relieved if Seller, at its discretion and at its own expense (a) procures for Buyer the right, at no additional expense to Buyer, to continue using the Product; (b) replaces or modifies the Product so that it becomes non-infringing, provided the modification or replacement does not adversely affect the specifications of the Product; or (c) in the event(a) and (b) are not practical, refund to Buyer the amortized amounts paid by Buyer with respect thereto, based on a five (5) year amortization schedule. THE FOREGOING INDEMNIFICATION PROVISION STATES SELLER'S ENTIRE LIABILITY TO BUYER FOR THE CLAIMS DESCRIBED HEREIN.

9.2. By Buyer. Buyer shall indemnify, defend with competent and experienced counsel and hold harmless Seller, its parent, subsidiaries, affiliates and divisions, and their respective officers, directors, shareholders and employees, from and against any and all damages, liabilities, actions, causes of action, suits, claims, demands, losses, costs and expenses (including without limitation reasonable attorneys' fees and disbursements and court costs) to the extent arising from or in connection with (i) the negligence or willful misconduct of Buyer, its agents, employees, representatives or contractors; (ii) use of a Product in combination with equipment or software not supplied by Seller where the Product itself would not be infringing; (iii) Seller's compliance with designs, specifications or instructions supplied to Seller by Buyer; (iv) use of a Product in an application or environment for which it was not designed; or (v) modifications of a Product by anyone other than Seller without Seller's prior written approval

10. SOFTWARE. With respect to any software products incorporated in or forming a part of the Products hereunder, Seller and Buyer intend and agree that such software products are being licensed and not sold, and that the words "purchase", "sell" or similar or derivative words are understood and agreed to mean "license", and that the word "Buyer" or similar or derivative words are understood and agreed to mean "licensee". Notwithstanding anything to the contrary contained herein, Seller or its licensor, as the case may be, retains all rights and interest in software products provided hereunder. Seller hereby grants to Buyer a royalty-free, non-exclusive, nontransferable license, without power to sublicense, to use software provided hereunder solely for Buyer's own internal business purposes on the hardware products provided hereunder and to use the related documentation solely for Buyer's own internal business purposes. This license terminates when Buyer's lawful possession of the hardware products provided hereunder ceases, unless earlier terminated as provided herein. Buyer agrees to hold in confidence and not to sell, transfer, license, loan or otherwise make available in any form to third parties the software products and related documentation provided hereunder. Buyer may not disassemble, decompile or reverse engineer, copy, modify, enhance or otherwise change or supplement the software products provided hereunder without Seller's prior written consent. Seller will be entitled to terminate this license if Buyer fails to comply with any term or condition herein. Buyer agrees, upon termination of this license, immediately to return to Seller all software products and related documentation provided hereunder and all copies and portions thereof

11. LIMITATION OF LIABILITY. NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED HEREIN, THE LIABILITY OF SELLER UNDER THESE TERMS AND CONDITIONS (WHETHER BY REASON OF BREACH OF CONTRACT, TORT, INDEMNIFICATION, OR OTHERWISE, BUT EXCLUDING LIABILITY OF SELLER FOR BREACH OF WARRANTY (THE SOLE REMEDY FOR WHICH SHALL BE AS PROVIDED UNDER SECTION 8 ABOVE)) SHALL NOT EXCEED AN AMOUNT EQUAL TO THE LESSER OF (A) THE TOTAL PURCHASE PRICE THERETOFORE PAID BY BUYER TO SELLER WITH RESPECT TO THE PRODUCT(S) GIVING RISE TO SUCH LIABILITY OR (B)

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

ONE MILLION DOLLARS ($1,000,000). NOTWITHSTANDING ANYTHING TO THE CONTRARY CONTAINED HEREIN, IN NO EVEN SELLER BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES (INCLUDING WITHOUT LIMITATION DAMAGES FOR LOSS OF USE OF FACILITIES OR EQUIPMENT, LOSS OF REVENUE, LOSS OF DATA, LOSS OF PROFITS OR LOSS OF GOODWILL), REGARDLESS OF WHETHER SELLER (a) HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES OR (b) IS NEGLIGENT

12. EXPORT RESTRICTIONS. Buyer acknowledges that each Product and any related software and technology, including technical information supplied by Seller or contained in documents (collectively "Items"), is subject to export controls of the U.S. government. The export controls may include, but are not limited to, those of the Export Administration Regulations of the U.S. Department of Commerce (the "EAR"), which may restrict or require licenses for the export of Items from the United States and their re-export from other countries. Buyer shall comply with the EAR and all other applicable laws, regulations, laws, treaties, and agreements relating to the export, re-export, and import of any Item. Buyer shall not, without first obtaining the required license to do so from the appropriate U.S. government agency; (i) export or re-export any Item, or (ii) export, re-export, distribute or supply any Item to any restricted or embargoed country or to a person or entity whose privilege to participate in exports has been denied or restricted by the U.S. government. Buyer shall, if requested by Seller, provide information on the end user and end use of any Item exported by the Buyer or to be exported by the Buyer. Buyer shall cooperate fully with Seller in any official or unofficial audit or inspection related to applicable export or import control laws or regulations, and shall indemnify and hold Seller harmless from, or in connection with, any violation of this Section by Buyer or its employees, consultants, or agents

13. HAZARDOUS MATERIALS. Some Products may require special packaging, labeling, marking and handling. Carriers may add additional freight charges for the handling or transporting of these materials. The consolidating of such material with other Products may be prohibited. Additional freight charges will be billed per Seller's shipping terms. Be sure to advise Seller of shipping instructions for these hazardous materials to reduce your freight costs

14. MISCELLANEOUS. (a) Buyer may not delegate any duties nor assign any rights or claims hereunder without Seller's prior written consent, and any such attempted delegation or assignment shall be void. (b) The rights and obligations of the parties hereunder shall be governed by and construed in accordance with the laws of the State of Seller's manufacturing location, without reference to its choice of law provisions. Each party hereby irrevocably consents to the exclusive jurisdiction of the state and federal courts located in the county and state of Seller's manufacturing location, in any action arising out of or relating to this Agreement. (c) Both parties waive any right they may have under applicable law or otherwise to a right to a trial by jury. Any action arising under this Agreement must be brought within one (1) year from the date that the cause of action arose. (d) The application to this Agreement of the U.N. Convention on Contracts for the International Sale of Goods is hereby expressly excluded. (e) In the event that any one or more provisions contained herein shall be held by a court of competent jurisdiction to be invalid, illegal or unenforceable in any respect, the validity, legality and enforceability of the remaining provisions contained herein shall remain in full force and effect, unless the revision materially changes the bargain. (f) Seller's failure to enforce, or Seller's waiver of a breach of, any provision contained herein shall not constitute a waiver of any other breach or of such provision. (g) Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for non-clinical, non-diagnostic, non-therapeutic use only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to humans or animals. (h) Buyer agrees that all pricing, discounts and technical information that Seller provides to Buyer are the confidential and proprietary information of Seller. Buyer agrees to (1) keep such information confidential and not disclose such information to any third party, and (2) use such information solely for Buyer's internal purposes and in connection with the Products supplied hereunder. Nothing herein shall restrict the use of information available to the general public. (i) Any notice or communication required or permitted hereunder shall be in writing and shall be deemed received when personally delivered or three (3) business days after being sent by certified mail, postage prepaid, to a party at the address specified herein or at such other address as either party may from time to time designate to the other (j) Seller hereby rejects and disclaims any rights of Buyer contained, or obligations imposed upon Seller, in any document provided, referenced or otherwise submitted by Buyer, in each case, that Seller has not expressly included in these [terms and conditions] or a writing manually executed by Seller (including, without limitation, any rights of Buyer in respect of designs, specifications, source code or intellectual property, owned, created, developed or licensed, by Seller; any rights to items or services not specifically identified in Seller's quotation; any audit rights or financial offset rights of Buyer; any penalties or liquidated damages imposed upon Seller; any obligation by Seller to comply with Health Insurance Portability and Accountability Act of 1996 (as amended), Current Good Manufacturing Practice regulations (as amended), the requirements, as amended, of the Customs-Trade Partnership Against Terrorism or any code of conduct, quality program, information security program, background or drug screening program or other guidelines, programs or policies, in each case, promulgated or required by Buyer; any obligation that Seller comply with any law that, under law, would not otherwise apply to Seller in respect of the transaction(s) contemplated hereby; any right of Buyer to withhold all, or any portion, of the purchase price of any products or services provided hereunder for any period of time; any right of Buyer, itself or through any third party, to remediate any defects in, replace or re-perform, any products or services provided hereunder at Seller's cost or expense; any obligation of Seller to waive, or require its insurers to waive, any rights of subrogation; any obligation of Seller that would impair, restrict or prohibit Seller's ability to freely conduct any business with any person or in any geography or market; any early-payment, or other, discount; any obligation of Seller to maintain a supply of spares, or otherwise make any services available, for any particular period of time; any representation, warranty or other obligation of Seller to provide pricing comparable to, or more favorable than, the pricing that Seller provides to others; any restriction of, or prohibition on, Seller's ability to modify, change or discontinue any of its products, processes or services; or any waiver by Seller of any right to enforce any of the terms hereof).

15. SOFTWARE-AS-A-SERVICE TRANSACTIONS. IF YOU ARE PURCHASING ANY PRODUCTS PROVIDED BY SELLER HEREUNDER AND DESCRIBED IN THE RELEVANT QUOTATION OR PURCHASE ORDER AS A SUBSCRIPTION TO ANY THERMO FISHER SOFTWARE-AS-A-SERVICE OFFERING (ANY SUCH PRODUCT, HEREINAFTER, A "SUBSCRIPTION"),THEN IN RESPECT OF SUCH SUBSCRIPTION(S) ONLY

(a) The following terms and conditions of this Agreement shall not apply: Sections 6-7, 9.1, and 13.

(b) The following terms and conditions of this Agreement shall be modified as set forth below:

(i) Section 5 shall be replaced in its entirety with the following:

5. CANCELLATION OR CHANGES BY BUYER. Seller reserves the right to suspend or terminate the Buyer's Subscription(s), in whole or in part, if Buyer fails to make any payment to Seller when due, otherwise fails to perform its obligations hereunder, or fails to comply with the Seller's Terms of Use agreement agreed to by Buyer and governing Buyer's use of the Subscription(s), as in effect from time to time (the "Terms of Use"). Seller will not be liable for any loss or damage resulting from any delay in activation of the Subscription(s) or failure to activate the Subscription(s) which is due to any cause beyond Seller's reasonable control. In the event of a delay due to any cause beyond Seller's reasonable control, Seller reserves the right to terminate the order or to reschedule the activation of the Subscription(s) within a reasonable period of time, and Buyer will not be entitled to refuse payment or otherwise be relieved of any obligations as the result of such delay. Orders in process may be canceled only with Seller's written

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

payment of Seller's cancellation charges. Orders in process may not be changed except with Seller's written consent a agreement by the parties as an appropriate adjustment in the purchase price therefor.

(ii) Section 8 shall be replaced in its entirety with the following:
8. WARRANTY. BUYER AGREES AND ACKNOWLEDGES THAT THE SUBSCRIPTIONS ARE SOLD "AS-IS", WITH NO WARRANTIES EXPRESSED OR IMPLIED. SELLER DISCLAIMS ALL EXPRESS OR IMPLIED WARRANTIES, ORAL OR WRITTEN, WITH RESPECT TO THE SUBSCRIPTIONS, INCLUDING WITHOUT LIMITATION ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

(iii) Section 10 shall be replaced in its entirety with the following:

10. SOFTWARE. This Agreement shall not be construed to grant to Buyer any patent license, know-how license or any other rights except as specifically provided herein. Buyer agrees and acknowledges that, by virtue of its purchase of the Subscriptions hereunder, it does not acquire any intellectual property rights (whether by license, assignment, or otherwise) of Seller, including without limitation any rights to the Subscriptions or related software or hardware systems (except for the limited right to use the Subscription subject to the terms and conditions set forth herein). Buyer shall not reverse engineer or copy the design, algorithms, or code, or any components thereof, of any information related to the Subscriptions for any purpose.

(iv) In Section 11, the language "ONE MILLION DOLLARS ($1,000,000)" shall be replaced with "TEN THOUSAND DOLLARS ($10,000)".

(c) The following additional terms and conditions shall apply
TERMS OF USE. Buyer hereby acknowledges and agrees that it shall comply with all terms and conditions of the Terms of Use, and that Buyer's use of the Subscription in violation of any such terms and/or conditions shall entitle Seller, without prejudice to any other remedies that may be available to Seller at law or in equity, to terminate Buyer's use of the Subscription(s) effective immediately. Buyer further agrees and acknowledges that it shall not be entitled to any refund of any portion of the purchase price paid in respect of Subscription(s) cancelled by Seller pursuant to Seller's rights under this Section and/or the Terms of Use. Buyer's rights to use these Subscription will begin upon Seller's transmission to Buyer of Subscription link and end 12 months from this date unless otherwise terminated by Seller. In the event of any conflict between this Agreement and the Terms of Use, the Terms of Use shall control.

Attachment: Riverside Sheriff Trunarc Lamb Contract Moreno Valley (004) (6105 : APPROVAL TO USE ASSET FORFEITURE FUNDS TO

Report to City Council

TO:	Mayor and City Council Acting in its Capacity as President and Members of the Board of Directors of the Moreno Valley Community Services District (CSD)
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	April 18, 2023
TITLE:	PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS INTO COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) - AMENDMENT NOS. 78, 81 AND 86-89 (RESO. NOS. CSD 2023- __ TO CSD 2023-__)

RECOMMENDED ACTION

Recommendation:

1. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 78) (Abdon Sepulveda, 13400 Birchwood Dr.).

2. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 81) (Pedro A. Rivera Hernandez, Esther Burgos Rivera, 25663 Dracaea Ave.).

3. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 86) (Raul Romero, 22060 Monico Dr.).

4. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 87) (Dale Kimbriel, 14361 Anthony Pl.).

5. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 88) (Juan Ramon and Bertha Maldonado, 25035 Quebrada Ct.).

6. Adopt Resolution No. CSD 2023-__, a Resolution of the Board for the Moreno Valley Community Services District of the City of Moreno Valley, California, ordering the annexation of territory to City of Moreno Valley Community Facilities District No. 2021-01 (Parks Maintenance) and approving the amended map for said District (Amendment No. 89) (11 Fir Park Apartment Homes, located on the northside of Fir Ave., east of Indian St.).

SUMMARY

Adoption of the resolutions (Attachments 1-6) will certify the annexation of 6 parcels into Community Facilities District (CFD) No. 2021-01 (Parks Maintenance) (“District”). This action impacts only the property owners identified below, not the general citizens or taxpayers of the City.

DISCUSSION

As a condition of approval for the development projects identified below, the applicants are required to provide an ongoing funding source for maintenance of certain public facilities (e.g., parks). The funding is used to mitigate the cost of the impacts created by the proposed development.

Property Owner Project ACP Record #s	Amendment No.	APN	Location
Abdon Sepulveda Accessory Dwelling Unit (ADU) PEN21-0178/SCP22-0063	78	479-140-019	13400 Birchwood Dr.
Pedro A. Rivera Hernandez, Esther Burgos Rivera Accessory Dwelling Unit (ADU) BFR22-0212/SCP22-0126	81	479-641-002	25663 Dracaea Ave.
Raul Romero Accessory Dwelling Unit (ADU) BFR22-0192/SCP22-0094	86	264-371-014	22060 Monico Dr.
Dale Kimbriel Accessory Dwelling Unit (ADU) PEN21-0306/SCP23-0003	87	486-290-016	14361 Anthony Pl.
Juan Ramon and Bertha Maldonado Accessory Dwelling Unit (ADU) PEN21-0315/SCP22-0096	88	474-391-009	25035 Quebrada Ct.
11 Fir Park Apartment Homes 11-Unit Apartment Complex PEN19-0157/SCP23-0008	89	481-171-039	Located on northside of Fir Ave., East of Indian St.

On June 1, 2021, the CSD Board formed CFD No. 2021-01, pursuant to the Mello-Roos Community Facilities Act of 1982. The District was created to provide the development community with an alternative funding tool to mitigate the impacts of their proposed development. If a property owner elects to annex the parcels of their development into the District, they also authorize the CSD to annually levy a special tax, collected on the annual property tax bill, against property in the development project. Thus, satisfying the condition of approval.

On December 21, 2021, the CSD Board adopted Ordinance No. 56, which designated the entire territory of the City as a future annexation area for the District. With the future annexation area designated, annexations can occur without an additional public hearing as long as the annexing landowner provides unanimous consent. Once annexed, parcels are subject to the annual special tax to fund the service they are receiving.

An applicant has two options to satisfy the condition(s) of approval:

1. The property owner submits a Landowner Petition unanimously approving annexation of the property into the District. Approval of the petition and special tax rate allows the City to annually levy the special tax on the property tax bill of the property. This option is only available if there are

fewer than 12 registered voters living within the proposed annexation area; or

2. The applicant funds an endowment in an amount sufficient to yield an annual revenue stream that meets the annual obligation and provides for the ongoing operation and maintenance of parks facilities.

The Property Owners listed above elected to annex their property into CFD No. 2021-01 and have the special tax applied to the annual property tax bill. The Office of the Riverside County Registrar of Voters confirmed the number of registered voters residing at each property, allowing a special election of the landowner. Adoption of the resolutions (Attachments 1-6) amends the District and adds the property to the tax rate area identified in the Fiscal Impact section of this report. The resolutions also direct the recordation of the boundary maps (Attachments 7-12) and amended notice of special tax liens for the amendments. The Election Official confirmed the Property Owners unanimously approved the annexation of their property into the District (Attachments 13-18).

ALTERNATIVES

1. Adopt the resolutions. *Staff recommends this alternative since it will annex the properties into CFD No. 2021-01 at the request of the Property Owners and satisfy the condition of approval for the proposed developments.*

2. Do not adopt the resolutions. *Staff does not recommend this alternative because it is contrary to the request of the Property Owners, will not satisfy the condition of approval, and may delay development of the projects.*

3. Do not adopt the resolutions but rather continue the item to a future regularly scheduled City Council meeting. *Staff does not recommend this alternative as it will delay the Property Owners from satisfying the condition of approval and may delay development of the projects.*

FISCAL IMPACT

Revenue received from the special tax is restricted and can only be used to fund the services for each tax rate area within the District. The special tax can only be applied to a property tax bill of a parcel wherein the qualified electors (i.e., landowners or registered voters, depending upon the number of registered voters) have previously provided approval. If the projected revenue from the maximum special tax exceeds what is necessary to fund the services within the tax rate area, a lower amount will be applied to the property tax bill for all of the properties within the affected tax rate area. The maximum special tax rates are detailed below.

Property Owner Project ACP Record #s	Amendment No.	Property Type	FY 2022/23 Maximum Special Tax Rate
Abdon Sepulveda Accessory Dwelling Unit (ADU) PEN21-0178/SCP22-0063	78	Single Family	$308.39/unit
Pedro A. Rivera Hernandez, Esther Burgos Rivera Accessory Dwelling Unit (ADU) BFR22-0212/SCP22-0126	81	Single Family	$308.39/unit
Raul Romero Accessory Dwelling Unit (ADU) BFR22-0192/SCP22-0094	86	Single Family	$308.39/unit
Dale Kimbriel Accessory Dwelling Unit (ADU) PEN21-0306/SCP23-0003	87	Single Family	$308.39/unit
Juan Ramon and Bertha Maldonado Accessory Dwelling Unit (ADU) PEN21-0315/SCP22-0096	88	Single Family	$308.39/unit
11 Fir Park Apartment Homes 11-Unit Apartment Complex PEN19-0157/SCP23-0008	89	Multi-Family	$308.39/unit

The maximum special tax rate is subject to an annual inflation adjustment based on the change in the Consumer Price Index (CPI) or five percent (5%), whichever is greater. However, the annual adjustment cannot be applied unless the CSD Board annually authorizes such adjustment. The increase to the maximum special tax rate cannot exceed the annual inflationary adjustment without a two-thirds approval of the qualified electors within the affected tax rate area.

NOTIFICATION

The Landowner Petitions were emailed to the Property Owners on March 16, 2023 and on March 20, 2023.

PREPARATION OF STAFF REPORT

Prepared by:
Kimberly Ganimian
Special Districts Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager

Concurred by:
Jeremy Bubnick
Parks & Community Services Director

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 4.2: Develop and maintain a comprehensive Infrastructure Plan to invest in and deliver City infrastructure.

Objective 5.2: Promote the installation and maintenance of cost effective, low maintenance landscape, hardscape and other improvements which create a clean, inviting community.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

1. Resolution Ordering Annexation - Amendment No. 78
2. Resolution Ordering Annexation - Amendment No. 81
3. Resolution Ordering Annexation - Amendment No. 86
4. Resolution Ordering Annexation - Amendment No. 87
5. Resolution Ordering Annexation - Amendment No. 88
6. Resolution Ordering Annexation - Amendment No. 89
7. Boundary Map - Amendment No. 78
8. Boundary Map - Amendment No. 81
9. Boundary Map - Amendment No. 86
10. Boundary Map - Amendment No. 87
11. Boundary Map - Amendment No. 88

12. Boundary Map - Amendment No. 89
13. Certificate of Election Official - Amendment No. 78
14. Certificate of Election Official - Amendment No. 81
15. Certificate of Election Official - Amendment No. 86
16. Certificate of Election Official - Amendment No. 87
17. Certificate of Election Official - Amendment No. 88
18. Certificate of Election Official - Amendment No. 89

APPROVALS

Budget Officer Approval	✓ Approved	4/11/23 3:05 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/11/23 3:12 PM

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 78 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
78	479-140-019

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B

Sheet 1 of 1

AMENDMENT NO. 78 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20_____ AT THE HOUR OF _____ O'CLOCK _____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.

Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Resolution Ordering Annexation - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 81 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

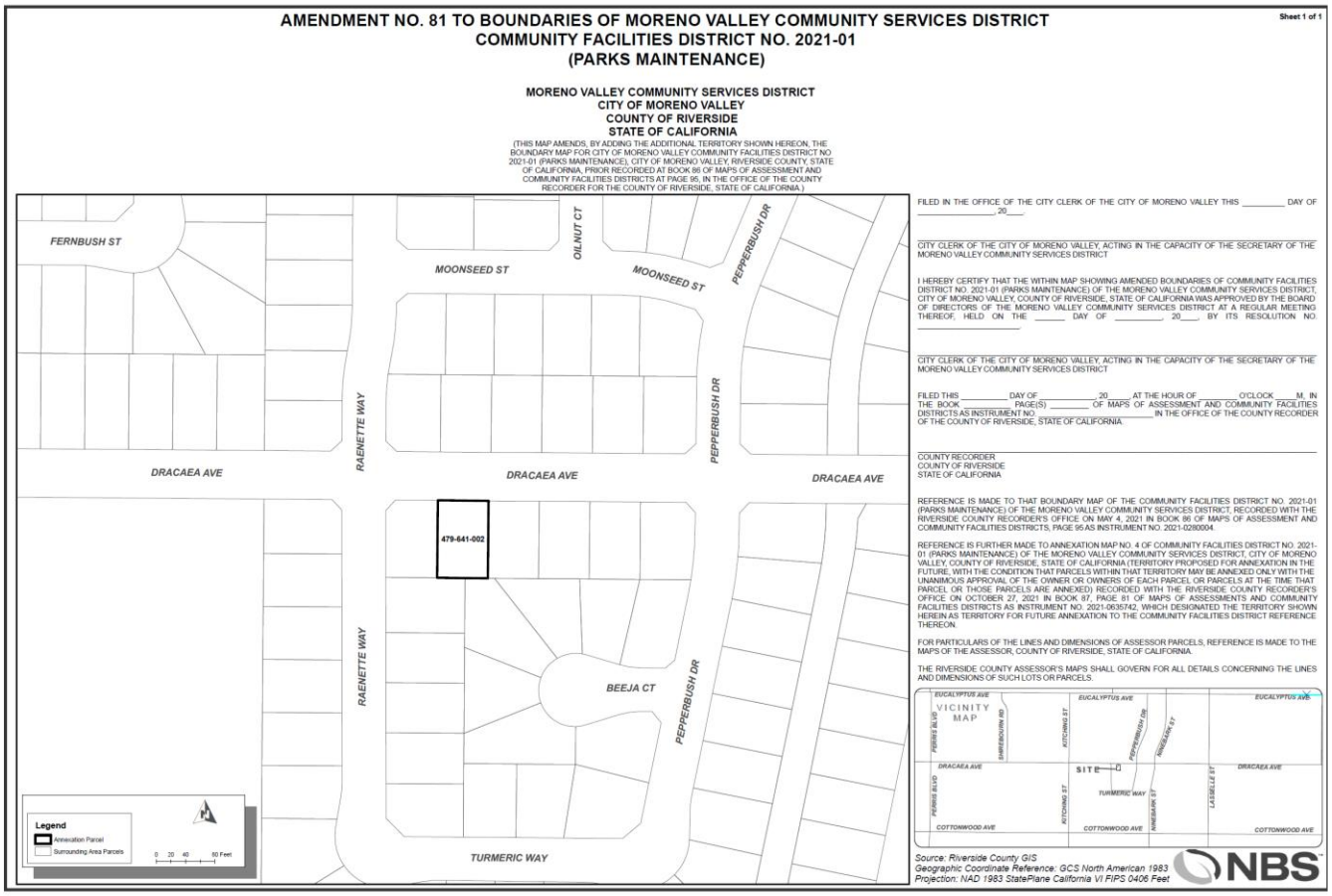
Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
81	479-641-002

Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 86 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

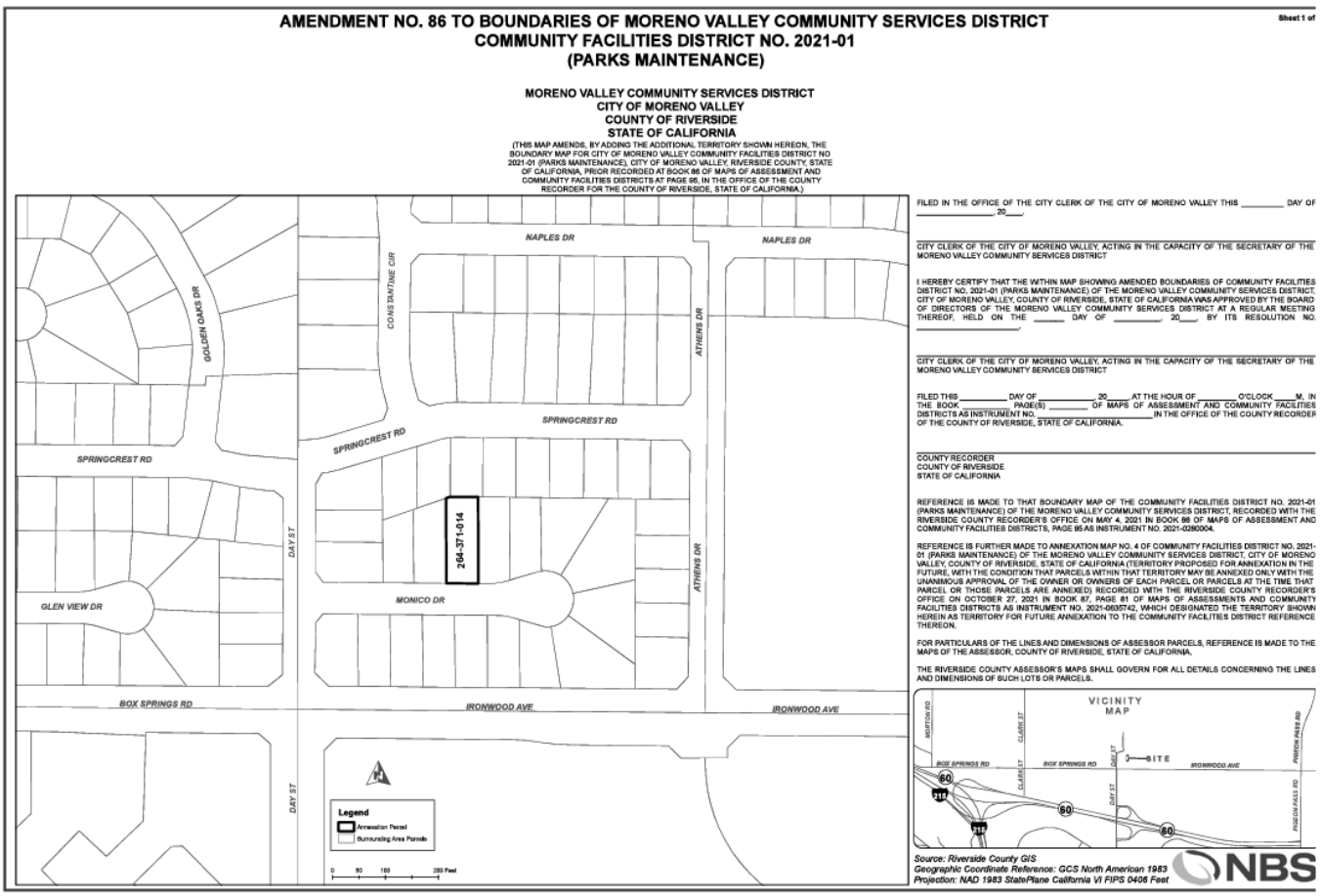
Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
86	264-371-014

Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 87 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

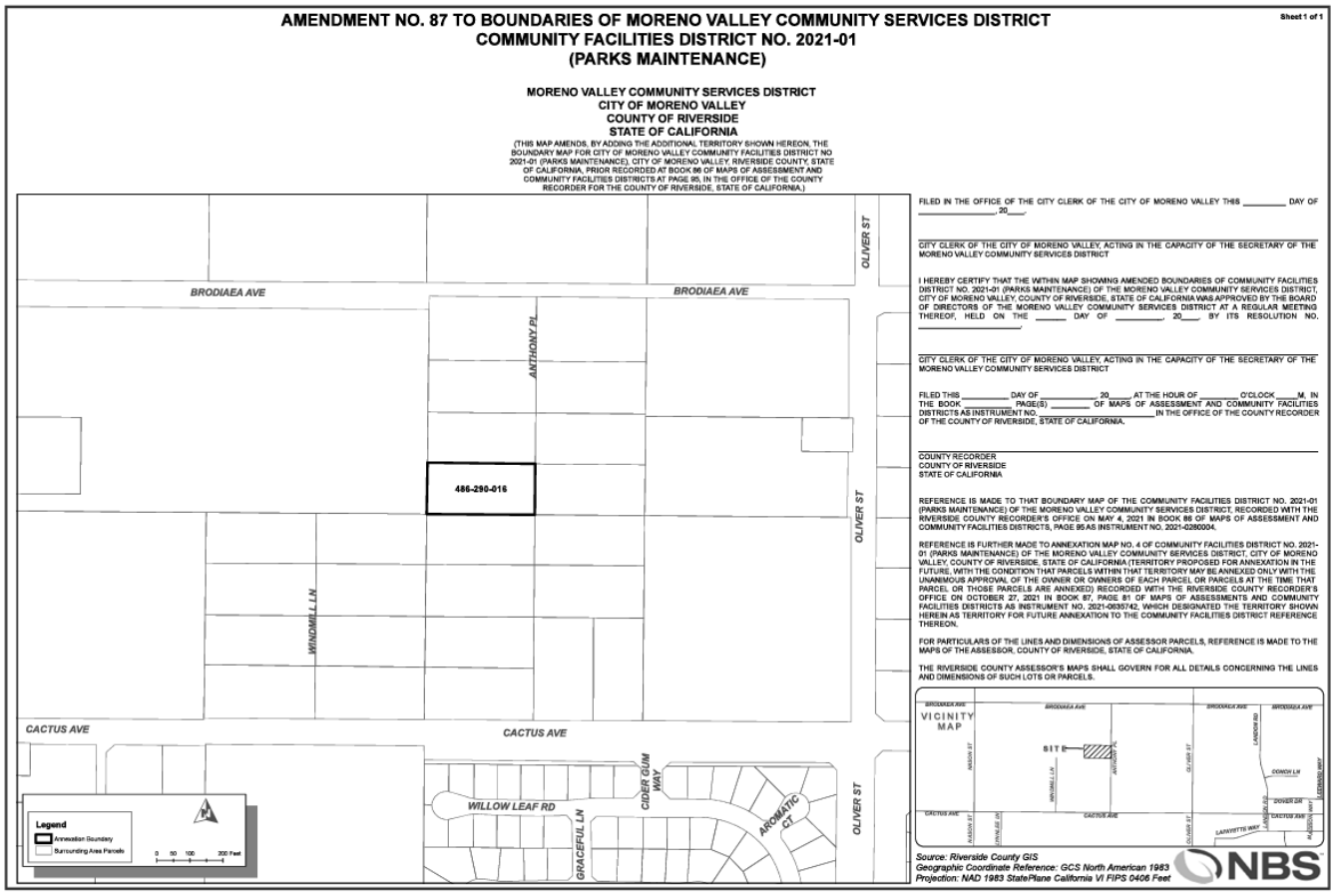
Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
87	486-290-016

Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 88 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

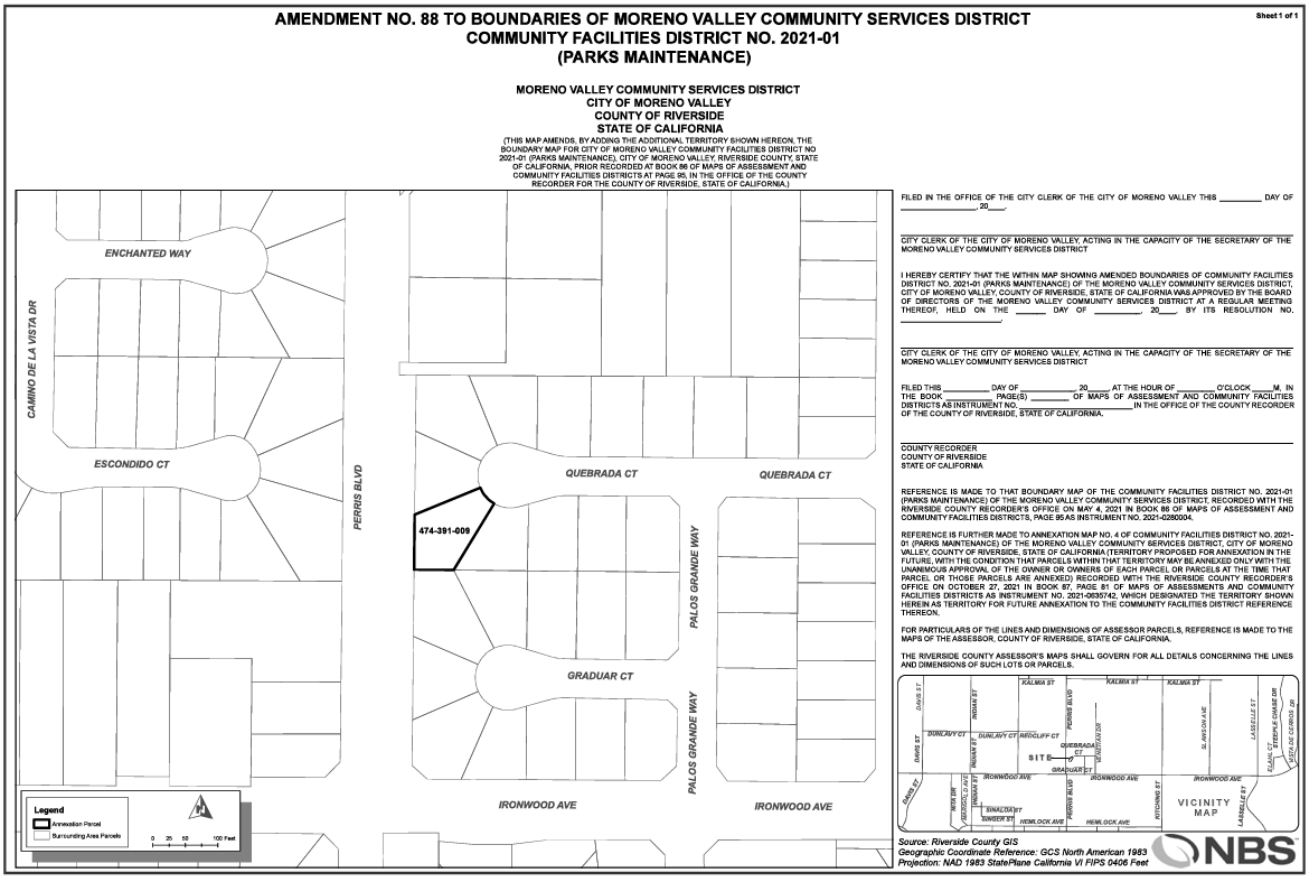
Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
88	474-391-009

Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION NO. 2023-___

A RESOLUTION OF THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, ORDERING THE ANNEXATION OF TERRITORY TO MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) AND APPROVING AN AMENDED MAP FOR SAID DISTRICT

WHEREAS, by its Resolution No. CSD 2021-22, Board established the Moreno Valley Community Services District Community Facilities District No. 2021-01 (Parks Maintenance) (the "CFD"), pursuant to the Mello-Roos Community Facilities Act of 1982 (Government Code Section 53311 *et seq*.) (the "Act"); and

WHEREAS, by its Ordinance No. CSD 55, the Board authorized an annual special tax to be levied against all non-exempt parcels of real property within the CFD (the "Special Tax") to fund parks maintenance services; and

WHEREAS, in order to permit landowners to efficiently annex developing parcels to the CFD, the Board, by its Ordinance No. CSD 56 designated the entire territory of the City of Moreno Valley as a future annexation area for the CFD; and

WHEREAS, the landowner of the parcel listed on Exhibit A to this Resolution, which is attached hereto and incorporated herein by reference, has submitted to the District a petition requesting and approving annexation of the listed parcel (the "Annexation Parcel") to the CFD; and

WHEREAS, the Annexation Parcel is comprised of the territory shown on the boundary map (the "Boundary Map") entitled "Amendment No. 89 to Boundaries of Community Facilities District No. 2021-01 (Parks Maintenance), Moreno Valley Community Services District, City of Moreno Valley, County of Riverside, California" which is included as Exhibit B to this Resolution, and incorporated herein by this reference; and

WHEREAS, the Board desires to annex the Annexation Parcel to the CFD.

NOW, THEREFORE, THE BOARD FOR THE MORENO VALLEY COMMUNITY SERVICES DISTRICT OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

1. Recitals. The above recitals are all true and correct and are herein incorporated.

2. Annexation Approved. The Annexation Parcel is hereby added to and part of the CFD with full legal effect and is subject to the Special Tax.

3. Description of Services. The following is a general description of the services (the "Services") provided in the CFD:

Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

Maintaining, lighting, and operating parks and park improvements that are owned and operated by the CSD, to the extent such services are in addition to services already provided at the time CFD No. 2021-01 was created and do not supplant existing services.

Fundable services include (i) planting, replanting, mowing, trimming, irrigation and fertilization of grass, trees, shrubs, and other plants and vegetation, (ii) the operation, maintenance, repair, and replacement of irrigation systems and lighting systems, and (iii) the operation maintenance, repair and replacement of any real property or improvements with a useful life of more than five years.

Fundable costs include, but are not limited to: (i) contracted costs for such services, (ii) salaries and benefits of staff, including park rangers, devoted to such services, (iii) expenses related to equipment, apparatus, and supplies related to these services, (iv) administrative and overhead costs, including staff time, associated with providing such services, and (v) lifecycle costs associated with the repair and replacement of facilities and improvements.

4. Amended Boundary Map. The Boundary Map attached hereto as Exhibit B is hereby approved. This map amends, and does not supersede, the existing maps of the CFD. The Board directs that said map be filed with the Riverside County Recorder pursuant to Section 3113 of the Streets and Highways Code.

5. Notice of Special Tax Lien. The Board directs that an amended notice of special tax lien be recorded pursuant to Section 3117.5 of the Streets and Highways Code with respect to the Annexation Parcel associated with the Boundary Map.

6. This Resolution shall be effective immediately upon adoption.

7. The Secretary shall certify to the adoption of this Resolution, and shall maintain it on file as a public record this Resolution.

8. Severability. The Board declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

APPROVED AND ADOPTED this 18th day of April 2023.

_____

Mayor of the City of Moreno Valley, acting in the capacity as President of the Board for the Moreno Valley Community Services District

ATTEST:

_____

City Clerk of the City of Moreno Valley, acting in the capacity of Secretary of the Moreno Valley Community Services District

APPROVED AS TO FORM:

_____

City Attorney of the City of Moreno Valley, acting in the capacity of General Counsel of the Moreno Valley Community Services District

Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

RESOLUTION JURAT

I, Jane Halstead, Secretary of the Moreno Valley Community Services District, Moreno Valley, California do hereby certify that Resolution No. CSD 2023-____ was duly and regularly adopted by the Board of Directors for the Moreno Valley Community Services District at a regular meeting held on the 18th day of April 2023, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

(Boardmembers, Vice-President and President)

_____
SECRETARY

(SEAL)

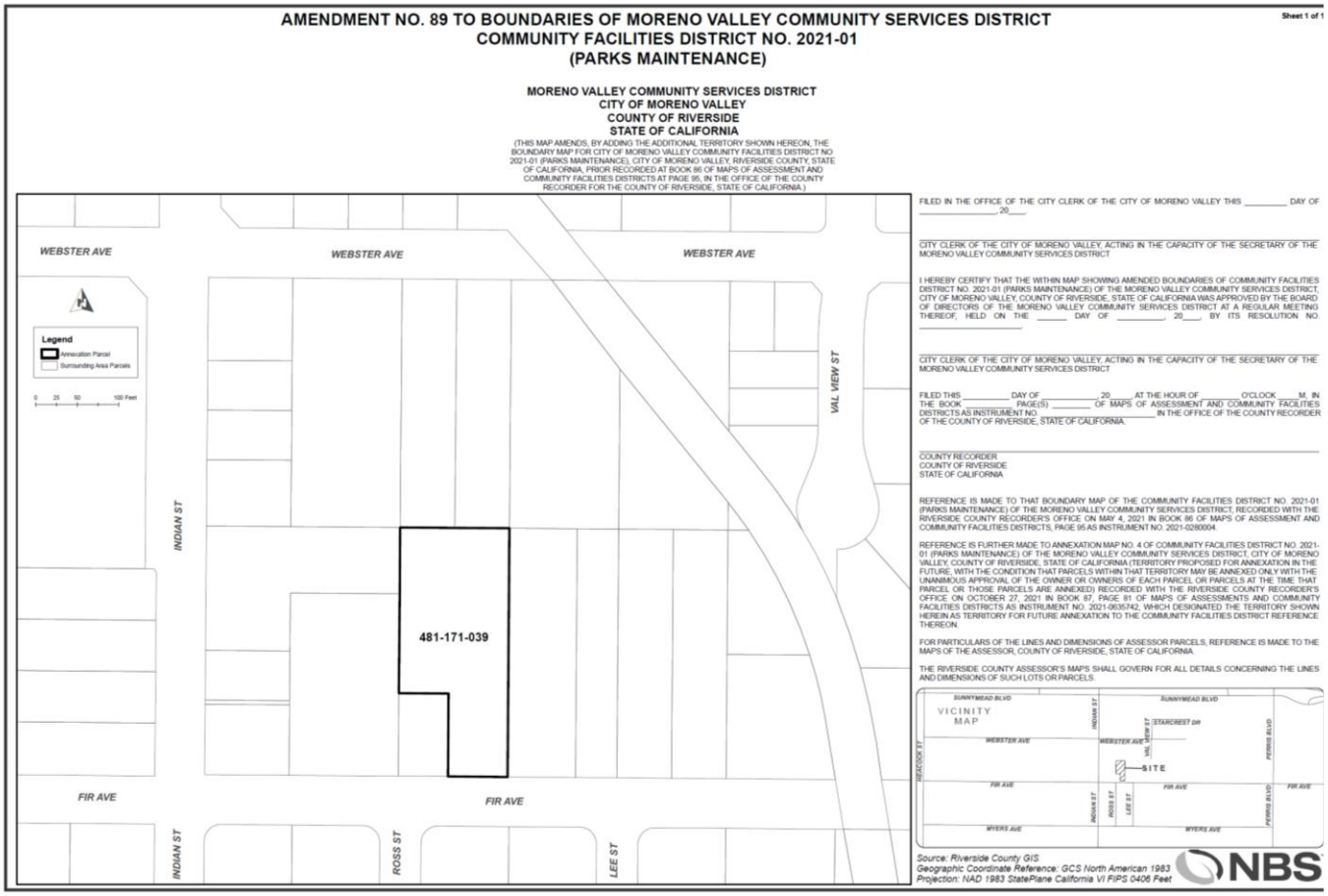
Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT A

List of Annexation Parcels	
Amendment Map No.	Assessor's Parcel Number
89	481-171-039

Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

EXHIBIT B



Attachment: Resolution Ordering Annexation - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN

AMENDMENT NO. 78 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)

Sheet 1 of 1

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

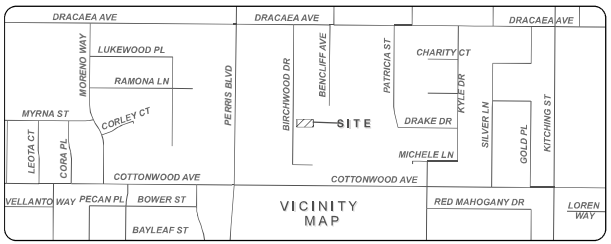
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 81 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

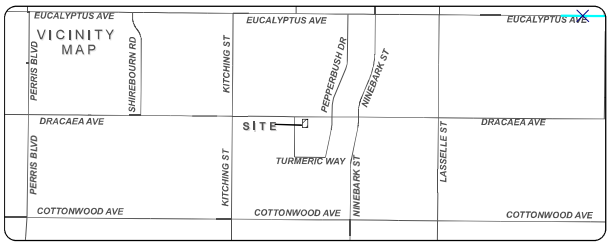
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

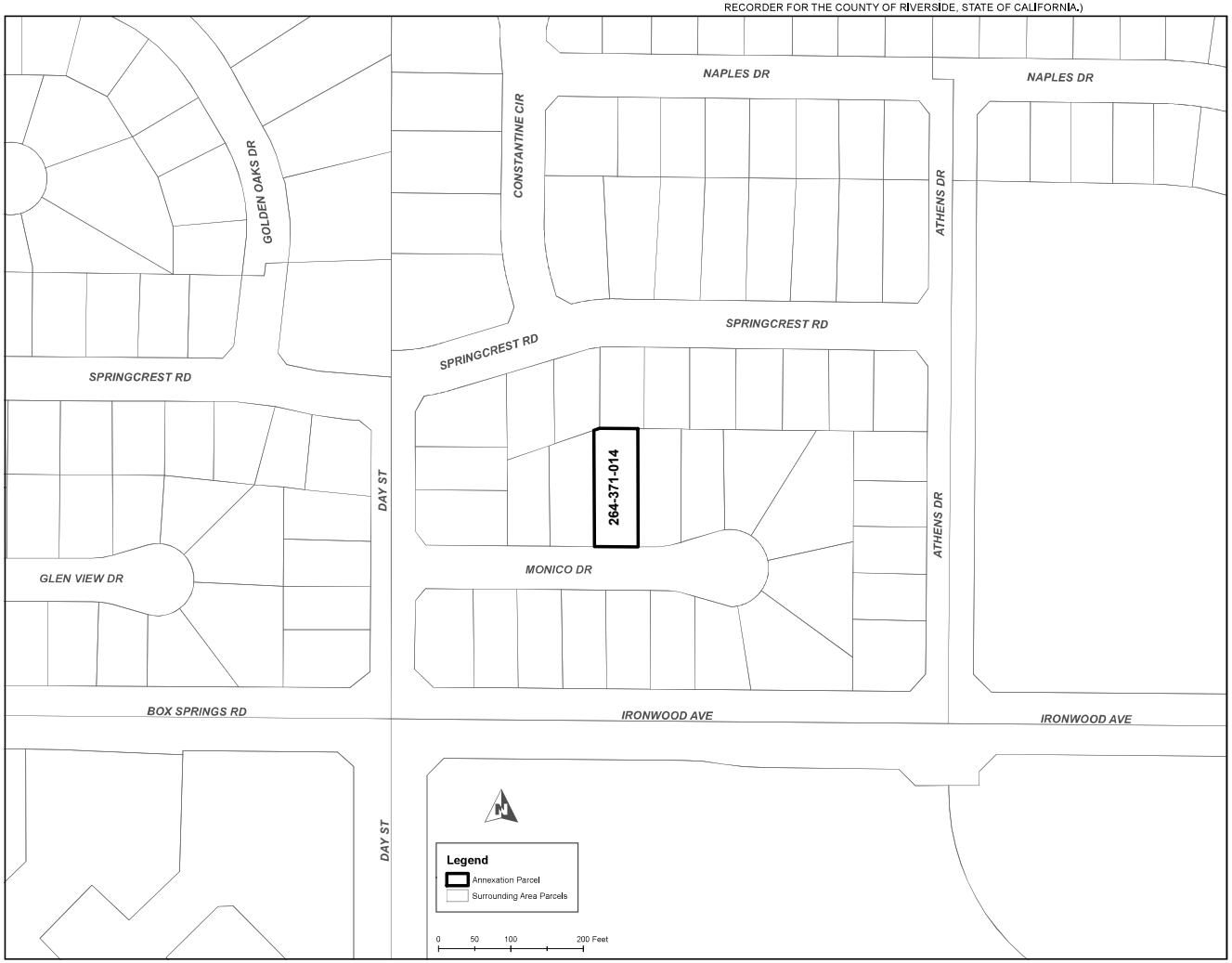
NBS

Attachment: Boundary Map - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 86 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

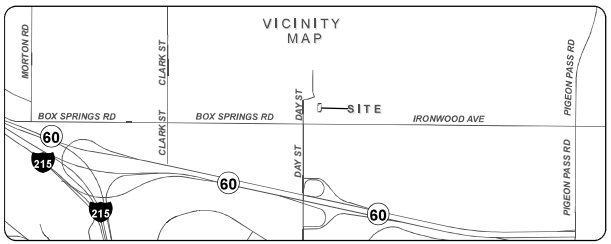
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

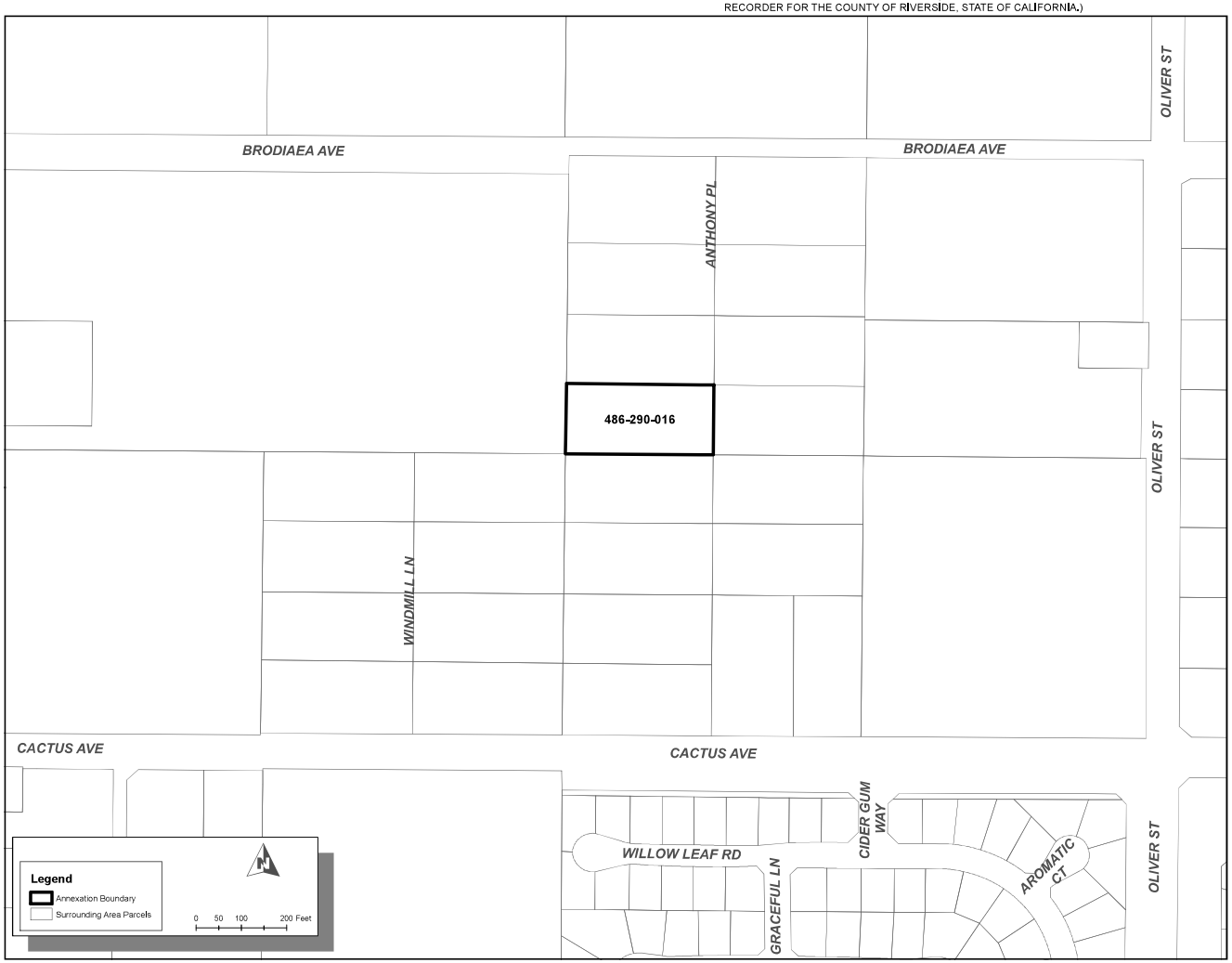
NBS

Attachment: Boundary Map - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 87 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20___.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20___, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

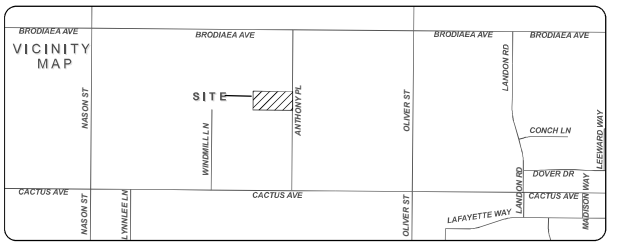
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 88 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)

FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

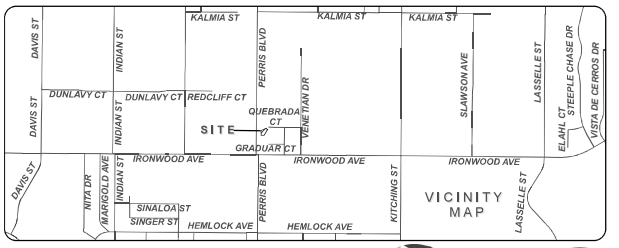
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

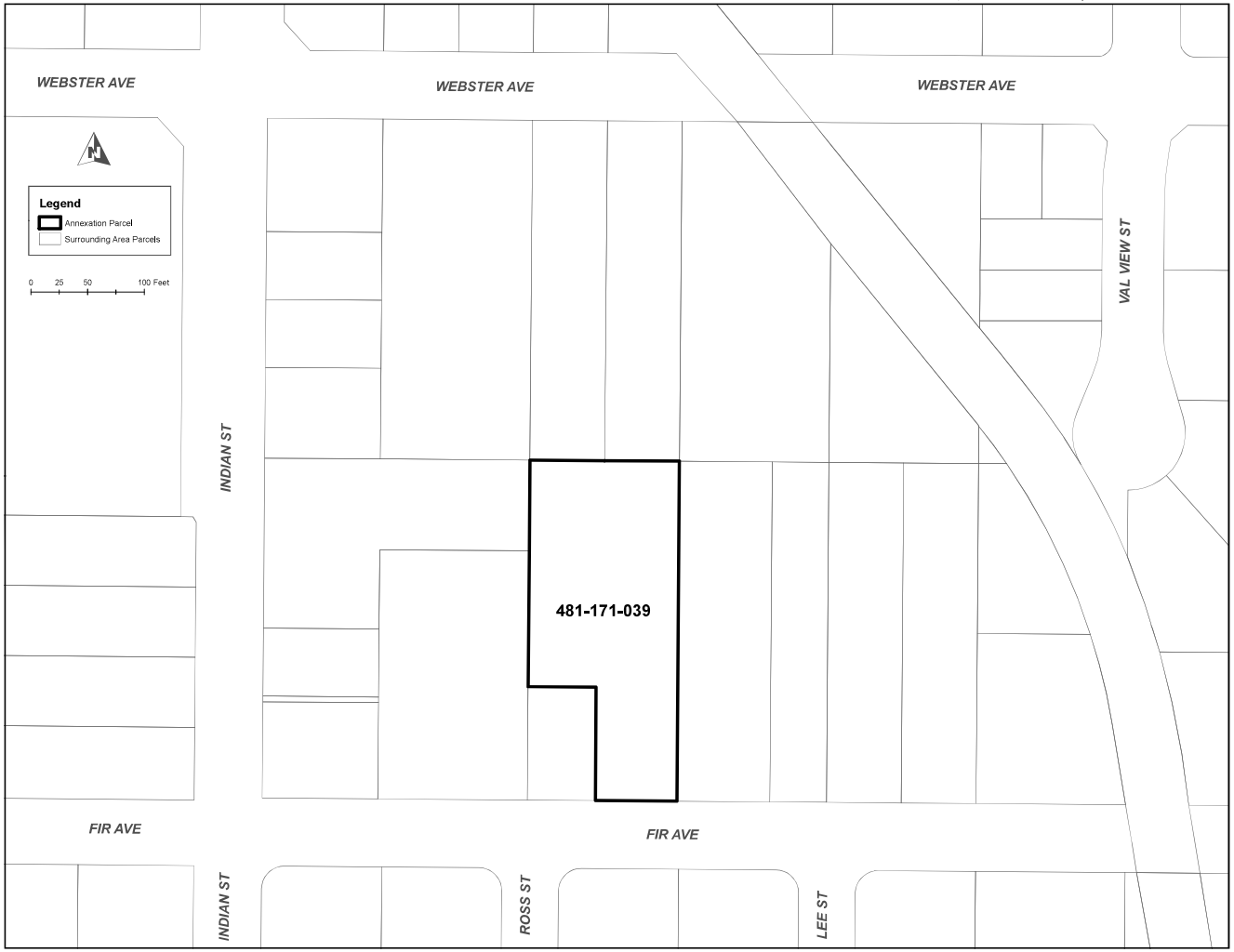
NBS

Attachment: Boundary Map - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS,

AMENDMENT NO. 89 TO BOUNDARIES OF MORENO VALLEY COMMUNITY SERVICES DISTRICT COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE)

MORENO VALLEY COMMUNITY SERVICES DISTRICT
CITY OF MORENO VALLEY
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

(THIS MAP AMENDS, BY ADDING THE ADDITIONAL TERRITORY SHOWN HEREON, THE BOUNDARY MAP FOR CITY OF MORENO VALLEY COMMUNITY FACILITIES DISTRICT NO 2021-01 (PARKS MAINTENANCE), CITY OF MORENO VALLEY, RIVERSIDE COUNTY, STATE OF CALIFORNIA, PRIOR RECORDED AT BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AT PAGE 95, IN THE OFFICE OF THE COUNTY RECORDER FOR THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.)



FILED IN THE OFFICE OF THE CITY CLERK OF THE CITY OF MORENO VALLEY THIS _____ DAY OF _____, 20____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

I HEREBY CERTIFY THAT THE WITHIN MAP SHOWING AMENDED BOUNDARIES OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA WAS APPROVED BY THE BOARD OF DIRECTORS OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT AT A REGULAR MEETING THEREOF, HELD ON THE _____ DAY OF _____, 20____, BY ITS RESOLUTION NO. _____.

_____
CITY CLERK OF THE CITY OF MORENO VALLEY, ACTING IN THE CAPACITY OF THE SECRETARY OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT

FILED THIS _____ DAY OF _____, 20____ AT THE HOUR OF _____ O'CLOCK ____M. IN THE BOOK _____ PAGE(S) _____ OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. _____ IN THE OFFICE OF THE COUNTY RECORDER OF THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

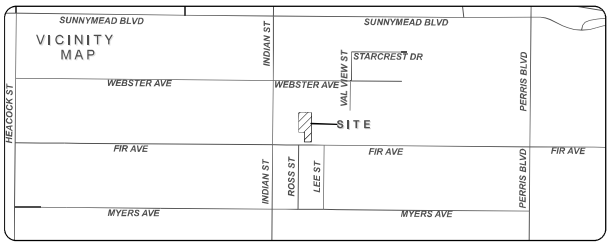
_____
COUNTY RECORDER
COUNTY OF RIVERSIDE
STATE OF CALIFORNIA

REFERENCE IS MADE TO THAT BOUNDARY MAP OF THE COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON MAY 4, 2021 IN BOOK 86 OF MAPS OF ASSESSMENT AND COMMUNITY FACILITIES DISTRICTS, PAGE 95 AS INSTRUMENT NO. 2021-0280004.

REFERENCE IS FURTHER MADE TO ANNEXATION MAP NO. 4 OF COMMUNITY FACILITIES DISTRICT NO. 2021-01 (PARKS MAINTENANCE) OF THE MORENO VALLEY COMMUNITY SERVICES DISTRICT, CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA (TERRITORY PROPOSED FOR ANNEXATION IN THE FUTURE, WITH THE CONDITION THAT PARCELS WITHIN THAT TERRITORY MAY BE ANNEXED ONLY WITH THE UNANIMOUS APPROVAL OF THE OWNER OR OWNERS OF EACH PARCEL OR PARCELS AT THE TIME THAT PARCEL OR THOSE PARCELS ARE ANNEXED) RECORDED WITH THE RIVERSIDE COUNTY RECORDER'S OFFICE ON OCTOBER 27, 2021 IN BOOK 87, PAGE 81 OF MAPS OF ASSESSMENTS AND COMMUNITY FACILITIES DISTRICTS AS INSTRUMENT NO. 2021-0635742, WHICH DESIGNATED THE TERRITORY SHOWN HEREIN AS TERRITORY FOR FUTURE ANNEXATION TO THE COMMUNITY FACILITIES DISTRICT REFERENCE THEREON.

FOR PARTICULARS OF THE LINES AND DIMENSIONS OF ASSESSOR PARCELS, REFERENCE IS MADE TO THE MAPS OF THE ASSESSOR, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA.

THE RIVERSIDE COUNTY ASSESSOR'S MAPS SHALL GOVERN FOR ALL DETAILS CONCERNING THE LINES AND DIMENSIONS OF SUCH LOTS OR PARCELS.



Source: Riverside County GIS
Geographic Coordinate Reference: GCS North American 1983
Projection: NAD 1983 StatePlane California VI FIPS 0406 Feet

NBS

Attachment: Boundary Map - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS,

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **March 20, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 78

WITNESS my hand this 20th day of March, 2023.

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 78 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **March 17, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 81

WITNESS my hand this 17th day of March, 2023.

JANE HALSTEAD
ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 81 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **March 30, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 86

WITNESS my hand this 30th day of March 2023.

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 86 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **March 30, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 87

WITNESS my hand this 30th day of March 2023.

Jane Halstead

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 87 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **April 3, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 88

WITNESS my hand this 3rd day of April, 2023.

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 88 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

CERTIFICATE OF ELECTION OFFICIAL
AND CONFIRMATION OF LANDOWNER PETITION

STATE OF CALIFORNIA)
COUNTY OF RIVERSIDE) ss.
CITY OF MORENO VALLEY)

The undersigned, Election Official of the City of Moreno Valley, County of Riverside, State of California, Does Hereby Certify that on **March 21, 2023**, I did verify the completeness of the Landowner Petition for the annexation of property into:

COMMUNITY FACILITIES DISTRICT NO. 2021-01 OF THE
MORENO VALLEY COMMUNITY SERVICES DISTRICT
OF THE CITY OF MORENO VALLEY

AMENDMENT NO. 89

WITNESS my hand this 21st day of March, 2023.

Jane Halstead

ELECTION OFFICIAL
CITY OF MORENO VALLEY
STATE OF CALIFORNIA

Attachment: Certificate of Election Official - Amendment No. 89 (6185 : PURSUANT TO LANDOWNER PETITIONS, ANNEX CERTAIN PARCELS

Report to City Council

TO:	Mayor and City Council
FROM:	Brian Mohan, Assistant City Manager
AGENDA DATE:	April 18, 2023
TITLE:	PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT PERIOD FOR THE FIVE-YEAR CONSOLIDATED PLAN FOR PROGRAM YEARS 2023/2028 AND FOR THE CDBG, HOME & ESG PROJECT SELECTIONS FOR INCLUSION IN FISCAL YEAR 2023/24 ANNUAL ACTION PLAN

RECOMMENDED ACTION

Recommendation:

1. Conduct a Public Hearing to review and begin the 30-day public comment period for the five-year Consolidated Plan for program years 2023/2028 and for the Community Development Block Grant (CDBG), HOME Investment Partnerships Program (HOME) and Emergency Solutions Grants Program (ESG) programs to allow the public an opportunity to comment on the proposed project selections for Fiscal Year (FY) 2023/24 Annual Action Plan.

SUMMARY

Every year, the City is required to submit an Annual Action Plan to the U.S. Department of Housing and Urban Development (HUD). The Annual Action Plan identifies how the CDBG, HOME and ESG program funds will be utilized to provide programs and projects that benefit low and moderate-income households and neighborhoods. It serves as the City's official grant application to HUD which must be submitted at least forty-five days before the beginning of the program year.

The activities for inclusion in the FY 2023/24 Annual Action Plan for CDBG, HOME and ESG are summarized in Attachment 1. Staff recommends that the City Council conduct a public hearing to review and begin the 30-day public comment period of the proposed projects for inclusion in the FY 2023/24 Annual Action Plan. Staff will return to Council

on May 16, 2023 to close the public comment period, recommend approval of staff's project selections and submittal to HUD.

Every five, years the City must submit a Consolidated Plan. The Consolidated Plan is designed to help assess affordable housing and community development needs, market conditions, and to make data-driven, place-based investment decisions. The Consolidated Plan is carried out through the Annual Action Plan. Staff recommends that the City Council conduct a public hearing to review and begin the 30-day public comment period of the Consolidated Plan.

DISCUSSION

Moreno Valley will allocate CDBG, HOME and ESG funds for the upcoming fiscal year. The FY 2023/24 Action Plan will serve as the first year of the annual update to the City's proposed five-year Consolidated Plan (FY 2023/24-2027/28). Tonight's Public Hearing represents one of the Public Hearings in a series of meetings conducted under the City's FY 2023/24 Action Plan schedule. The City Council established CDBG funding priorities at the December 6, 2022, meeting. The following provides a summary of the events that have occurred during the application process to date:

- November 22, 2022 — Finance Subcommittee review of grant policies and objectives
- December 6, 2022 — City Council Public Hearing to review Policies and Objectives and to collect community needs and comments
- December 15, 2022 — Notification of Notice of Funding Available (NOFA) posted by City Clerk in various satellite locations
  Application made available on City website & PlanetBids
- January 5, 2023 — Application Workshop held via teleconference
- January 31, 2023 — Application submittal deadline

The following provides a summary of the events that are scheduled to occur during the continued application process:

- April 17, 2023 — Start of 30-day public comment period for the draft Annual Action Plan, proposed Consolidated Plan, and proposed Analysis of Impediments
- April 18, 2023 — City Council Public Hearing to review and consider project selections
- May 16, 2023 — City Council Public Hearing to approve the proposed Consolidated Plan (FY 23/27), Annual Action Plan (FY 23/24), and Analysis of Impediments (FY 23/27), and close of public comment/review period
- May 17, 2023 — Submittal of Approved FY 2023/24 Annual Action Plan to HUD

HOME Investment Partnerships Program (HOME) – Grant Purpose

The Home Investment Partnerships Program was established by the Title II of the Cranston-Gonzalez National Affordable Housing Act. The objectives of the HOME program include:

- Expanding the supply of decent and affordable housing, particularly housing for low- and very low-income residents,
- Strengthening the abilities of State and local governments to design and implement strategies for achieving adequate supplies of decent, affordable housing,
- Providing financial and technical assistance to participating jurisdictions, including the development of model programs for affordable low-income housing; and
- Extending and strengthening partnerships among all levels of government and the private sector, including for-profit and non-profit organizations, in the production and operation of affordable housing.

HOME Investment Partnerships Program (HOME) – Funding and Limitations

Year 2023/2024 Allocation	Funding Allocation
Planning and Administration Cap (10% of annual grant)	$75,599
Mandatory CHDO set-aside (15% of annual grant)	$113,398
Available for Other Activities	$566,992
TOTAL Allocation	**$755,989**
TOTAL Uncommitted Prior Year HOME Funds	$1,953,951
TOTAL Available for Funding	**$2,709,940**

Emergency Solutions Grants Program (ESG) – Grant Purpose

The objectives of the ESG program are to assist, protect, and improve living conditions for the homeless. The program provides funding to:

- Engage homeless individuals and families living on the street,
- Improve the number and quality of emergency shelters for homeless individuals and families,
- Help operate these shelters,
- Provide essential services to shelter residents,
- Rapidly re-house homeless individuals and families, and
- Prevent families/individuals from becoming homeless.

Emergency Solutions Grants Program (ESG) – Funding and Limitations

Year 2023/2024 Allocation	Funding Allocation
Planning and Administration Cap (7.5% of annual grant)	$12,702
Available for Other Activities	$156,663
TOTAL Allocation	**$169,365**
TOTAL Available for Funding	**$169,365**

Community Development Block Grant (CDBG) – Grant Purpose

The Community Development Block Grant program is authorized by Title I of the Housing and Community Development Act of 1974, as amended. The primary objective of the CDBG program is to develop viable urban communities by providing decent housing, a suitable living environment, and expanded economic opportunities, principally for persons of low and moderate income.

The CDBG objective is to be achieved in two ways: First, a grantee can only use funds to assist eligible activities that meet one of three national objectives of the program:

- Benefit low- and moderate-income persons,
- Aid in the prevention or elimination of slums and blight, or
- Meet community development needs having a particular urgency.

Second, at least 70 percent of funds must be spent (over a period of up to 3 years) for activities that address the national objective of benefiting low- and moderate-income persons.

Community Development Block Grant (CDBG) – Funding and Limitations

Year 2023/2024 Allocation	Funding Allocation
Planning and Administration Cap (20% of annual grant)	$395,804
Public Services Cap (15% of annual grant)	$296,853
Available for Other Activities (65% of annual grant)	$1,286,362
TOTAL Allocation	**$1,979,019**
TOTAL Uncommitted Prior Year(s) CDBG Funds*	$421,191
TOTAL Available for Funding	**$2,400,210**

**** The City may utilize prior-year uncommitted funds towards non-public service activities***

Our independent consultant, Avant-Garde Inc., conducted the application review process and the preliminary draft of the CDBG, HOME and ESG program summaries

and funding recommendations are shown in Attachment 1.

ALTERNATIVES

The Council has the following alternatives:

1. Conduct a public hearing providing the public with an opportunity to comment on the proposed Consolidated Plan and the FY 2023/24 Annual Action Plan and provide an opportunity for City Council to review the project allocations. *Staff recommends this alternative as it will allow the grant funds to be allocated and approved within HUDs requirements.*

2. Do Not conduct a public hearing providing the public with an opportunity to comment on the proposed Consolidated Plan and the FY 2023/24 Annual Action Plan, and NOT provide an opportunity for City Council to review the project allocations. *Staff does not recommend this alternative as it will not allow the grant funds to be allocated and approved within HUDs requirements.*

FISCAL IMPACT

Expenses for these programs are reimbursed by the Federal grants. The ESG program requires a 100% match that will be met by the City's ESG subrecipients. Based on the recommended actions, there is no impact to the General Fund.

NOTIFICATION

Notice of this meeting was published in the Press-Enterprise and La Prensa newspapers on Friday, March 17, 2023. Additional notification was available through the City's website and directly e-mailed to those who applied for funding and are on our interest list.

PREPARATION OF STAFF REPORT

Prepared By:
Felicia London
Purchasing & Sustainability Division Manager

Department Head Approval:
Brian Mohan
Assistant City Manager / CFO / City Treasurer

CITY COUNCIL GOALS

None

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**

4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

ATTACHMENTS

To view large attachments, please click your "bookmarks" **on the left hand side of this document for the necessary attachment.**

1. FY 23-28 ConPlan DRAFT v1.04.11.2023 (003)
2. MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23

APPROVALS

Budget Officer Approval	✓ Approved	4/11/23 3:04 PM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/11/23 3:13 PM

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

2023-2028

Consolidated Plan

MORENO VALLEY

WHERE DREAMS SOAR

Financial and Management Services

14177 FREDERICK ST.

MORENO VALLEY, CA 92552

Presented to City Council on May 16, 2023

TABLE OF CONTENTS

Executive Summary 4
ES-05 Executive Summary - 24 CFR 91.200(c), 91.220(b) 4
The Process 7
PR-05 Lead & Responsible Agencies 24 CFR 91.200(b) 7
PR-10 Consultation – 91.100, 91.110, 91.200(b), 91.300(b), 91.215(l) and 91.315(l) 8
PR-15 Citizen Participation – 91.105, 91.115, 91.200(c) and 91.300(c) 15
Needs Assessment 19
NA-05 Overview 19
NA-10 Housing Needs Assessment - 24 CFR 91.205 (a, b, c) 20
NA-15 Disproportionately Greater Need: Housing Problems – 91.205 (b)(2) 36
NA-20 Disproportionately Greater Need: Severe Housing Problems – 91.205 (b)(2) 40
NA-25 Disproportionately Greater Need: Housing Cost Burdens – 91.205 (b)(2) 44
NA-30 Disproportionately Greater Need: Discussion – 91.205(b)(2) 46
NA-35 Public Housing – 91.205(b) 48
NA-40 Homeless Needs Assessment – 91.205(c) 53
NA-45 Non-Homeless Special Needs Assessment - 91.205 (b, d) 58
NA-50 Non-Housing Community Development Needs – 91.215 (f) 62
Housing Market Analysis 64
MA-05 Overview 64
MA-10 Number of Housing Units – 91.210(a)&(b)(2) 65
MA-15 Housing Market Analysis: Cost of Housing - 91.210(a) 71
MA-20 Housing Market Analysis: Condition of Housing – 91.210(a) 76
MA-25 Public and Assisted Housing – 91.210(b) 83
MA-30 Homeless Facilities and Services – 91.210(c) 86

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-35 Special Needs Facilities and Services – 91.210(d) 89
MA-40 Barriers to Affordable Housing – 91.210(e) 92
MA-45 Non-Housing Community Development Assets – 91.215 (f) 93
MA-50 Needs and Market Analysis Discussion 102
MA-60 Broadband Needs of Housing occupied by Low- and Moderate-Income Households - 91.210(a)(4), 91.310(a)(2) 111
MA-65 Hazard Mitigation - 91.210(a)(5), 91.310(a)(3) 114
Strategic Plan 115
SP-05 Overview 115
SP-10 Geographic Priorities – 91.215 (a)(1) 117
SP-25 Priority Needs - 91.215(a)(2) 119
SP-30 Influence of Market Conditions – 91.215 (b) 124
SP-35 Anticipated Resources - 91.215(a)(4), 91.220(c) (1,2) 125
SP-40 Institutional Delivery Structure – 91.215(k) 130
SP-45 Goals Summary – 91.215(a)(4) 133
SP-50 Public Housing Accessibility and Involvement – 91.215(c) 138
SP-55 Barriers to affordable housing – 91.215(h) 139
SP-60 Homelessness Strategy – 91.215(d) 140
SP-65 Lead based paint Hazards – 91.215(i) 142
SP-70 Anti-Poverty Strategy – 91.215(j) 143
SP-80 Monitoring – 91.230 144
Annual Action Plan 145
AP-15 Expected Resources – 91.220(c) (1,2) 145
AP-20 Annual Goals and Objectives 150
AP-35 Projects – 91.220(d) 153
AP-38 Project Summary 156

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-50 Geographic Distribution – 91.220(f) 177

AP-55 Affordable Housing – 91.220(g) 178

AP-60 Public Housing – 91.220(h) 179

AP-65 Homeless and Other Special Needs Activities – 91.220(i) 181

AP-75 Barriers to affordable housing – 91.220(j) 184

AP-85 Other Actions – 91.220(k) 185

Program Specific Requirements 188

AP-90 Program Specific Requirements – 91.220(l)(1,2,4) 188

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Executive Summary

ES-05 Executive Summary - 24 CFR 91.200(c), 91.220(b)

1. Introduction

Moreno Valley is located approximately 52 miles east of downtown Los Angeles and 42 miles west of Palm Springs. The City is located near the eastern edge of the Los Angeles metropolitan area. Moreno Valley is situated along two major freeways. The Moreno Valley Freeway (State Route 60) connects directly to downtown Los Angeles and the regional freeway system. State Route 60 connects to Orange County via the Riverside Freeway (State Route 91). To the east, State Route 60 connects with Interstate 10, running to Palm Springs, Phoenix, and beyond. Interstate 215 runs by the westerly city limits and is an important north-south link from San Diego through western Riverside and San Bernardino counties and beyond.

As a recipient of Community Development Block Grant (CDBG), HOME Investment Partnership (HOME), and Emergency Solutions Grant (ESG) funds Moreno Valley is required to prepare a Consolidated Plan. The Consolidated Plan serves four functions. These functions include the development of a planning document that encourages citizen participation, a consolidated application to HUD, a strategy to be followed in carrying out HUD programs, and an action plan that provides a basis for assessing performance. The Consolidated Plan outlines the community's needs, the strategies for addressing those needs, citizen participation and a one-year action plan, which is subsequently updated annually. The Consolidated Plan is a five-year community development plan covering the period July 1, 2023 to June 30, 2028.

2. Summary of the objectives and outcomes identified in the Plan Needs Assessment Overview

The overall goals of the CDBG, HOME and ESG Programs, as included in the Consolidated Plan, are to develop viable urban communities by providing (1) decent housing, (2) a suitable living environment, and (3) expanded economic opportunities principally for low and moderate-income persons.

Decent housing includes assisting homeless persons, retention of the affordable housing stock, increasing the availability of permanent housing in standard condition and affordable cost to low-income and moderate-income persons.

A suitable living environment includes improving the safety and livability of neighborhoods, increasing access to quality public and private facilities and services, and the revitalization of deteriorating or deteriorated neighborhoods.

Expanded economic opportunities include job creation and retention, as well as establishment, stabilization, and expansion of small businesses. The primary means towards this end is to extend and strengthen partnerships among all levels of government and the private sector, including for-profit and non-profit organizations, in the production and operation of affordable housing.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

3. Evaluation of past performance

The description of past performance is based on the most recent available data which includes the period from FY 2018-2019 through FY 2021-2022. The last year (FY 2022-2023) of the 2018-2023 Consolidated Plan cycle is still ongoing at the time of preparation of this plan, therefore that data is not included in this evaluation. However, the City anticipates meeting most of its accomplishments outlined in its 2018-2023 Consolidated Plan at the end of FY 2022-2023.

Below is a summary of the goals outlined in the 2018-2023 Consolidated Plan followed by performance through FY 21-22.

Achieve Fair Housing for All

- 5-Yr Goal: Provide fair housing and landlord/tenant rights and responsibilities counseling services to 23,500 households.
- Cumulative Actual at End of FY 21-22: The City assisted 19,614 households.

Address Homelessness:

- 5-Yr Goal: To assist 800 homeless persons and persons threatened with homelessness.
- Cumulative Actual at End of FY 21-22: The City provided homelessness prevention services to 66 to persons.

Improve the condition of existing housing stock:

- 5-Yr Goal: Construct 80 new affordable rental units; Rehabilitate 16 rental units; rehabilitate 90 homeowner housing.
- Cumulative Actual at End of FY 21-22: The City constructed 80 new affordable rental units; rehabilitated 4 rental units and rehabilitated 137 homeowner housing units.

Improve the well-being of persons:

- 5-Yr Goal: Assist 290,000 persons.
- Cumulative Actual at End of FY 21-22: The City has assisted 393,324 individuals through public services.

Promote Economic Development Activities:

- 5-Yr Goal: To create or retain 100 low-to moderate income jobs and assist 390 businesses.
- Cumulative Actual at End of FY 21-22: The City has helped retained or create 50 jobs and assisted 426 businesses.

Public Facilities and Infrastructures:

- 5-Yr Goal: To assist 55,000 persons through public facility/improvement projects aimed at improving ADA standards and City streets.

- Cumulative Actual at End of FY 21-22: The City carried out public facilities and infrastructure improvement projects that benefited 578,458 cumulative persons.

4. Summary of citizen participation process and consultation process

Citizen participation for the development of the Consolidated Plan and Annual Action Plan was accomplished through a series of public notices, announcements, public meetings, and public hearings. The City staff also distributed a survey to residents and non-profit organizations to solicit input on the community's needs. Public hearings were conducted to determine priority needs, review funding applications, and approve the 5-Year 2023-2028 Consolidated Plan and the FY 2023-2024 Annual Action Plan. In addition, the public was provided a 30-day period to review and comment on the Draft Consolidated Plan/Annual Action Plan. The citizen participation outreach effort is described in greater detail in part PR-15 Citizen Participation.

5. Summary of public comments

TBD, pending close of public hearing.

6. Summary of comments or views not accepted and the reasons for not accepting them

TBD, pending close of public hearing.

7. Summary

The City of Moreno Valley has undertaken diligent and good faith efforts in outreaching to all segments of the community that may benefit from the CDBG, HOME and ESG Programs.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

The Process

PR-05 Lead & Responsible Agencies 24 CFR 91.200(b)

1. Describe agency/entity responsible for preparing the Consolidated Plan and those responsible for administration of each grant program and funding source

The following are the agencies/entities responsible for preparing the Consolidated Plan and those responsible for administration of each grant program and funding source.

Agency Role	Name	Department/Agency
Lead Agency	MORENO VALLEY	
CDBG Administrator	MORENO VALLEY	FINANCIAL & MGMT SERVICES DEPT.
HOME Administrator	MORENO VALLEY	FINANCIAL & MGMT SERVICES DEPT.
ESG Administrator	MORENO VALLEY	FINANCIAL & MGMT SERVICES DEPT.

Table 1 – Responsible Agencies

Narrative

The City of Moreno Valley is the Lead Agency for the CDBG, HOME, and ESG entitlement programs. The city's Financial & Management Services Department is responsible for the administration and preparation of the Consolidated Plan, Annual Action Plans, Consolidated Annual Performance Evaluation Report, and all other related reports.

Consolidated Plan Public Contact Information

The primary contact for matters regarding this plan is:

- Brian Mohan, Assistant City Manager
- Dena Heald, Deputy Finance Director
- Felicia London, Purchasing & Sustainability Division Manager

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

PR-10 Consultation – 91.100, 91.110, 91.200(b), 91.300(b), 91.215(l) and 91.315(l)

1. Introduction

This part describes the consultation that was completed by the City during the development of the Consolidated Plan. City staff consistently work closely with outside agencies in both the public and private sectors. Through working with nonprofit agencies and other public institutions, the City hopes to achieve all the goals set forth in the Consolidated Plan.

Provide a concise summary of the jurisdiction's activities to enhance coordination between public and assisted housing providers and private and governmental health, mental health, and service agencies (91.215(l)).

The City enjoys a cooperative relationship with surrounding jurisdictions and agencies, as well as nonprofit organizations. The City meets on a regular basis with the Riverside County Department of Public Social Services as part of the Continuum of Care process. The City utilizes a variety of nonprofit organizations to address community needs, such as homelessness, special needs, and fair housing. In addition, the City also works with state and federal agencies through several grant programs to facilitate services and programs, which meet housing and safety needs in the community.

As a result of cooperating with surrounding jurisdictions, the City can address a wide variety of community needs including housing rehabilitation, housing programs, public services, and public safety. To facilitate the coordination and cooperation, the City will continue to work with these entities though meetings, correspondence, and joint endeavors. The City has been and will continue to be supportive of direct applications for funds from housing providers as well as local Community Housing and Development Organizations (CHDO's) and other entities. In addition, the City will continue to support funding applications for local nonprofit service providers.

Describe coordination with the Continuum of Care and efforts to address the needs of homeless persons (particularly chronically homeless individuals and families, families with children, veterans, and unaccompanied youth) and persons at risk of homelessness.

The City participates in the Riverside County Continuum of Care (CoC). The CoC consists of local government agencies as well as non-profit agencies that work together to address homeless issues in the region. Funding is provided to local public and non-profit agencies to provide homeless services and shelter. Monthly and quarterly meetings provide an opportunity for networking and working towards the common goal. In addition, the City continues to locally participate in the Riverside County Homeless Count. Participating in these counts provides staff with a firsthand knowledge of homeless needs through direct interaction with potential recipients of homeless services. Data from the homeless count is utilized to determine homeless service needs and levels in the City.

Describe consultation with the Continuum(s) of Care that serves the jurisdiction's area in determining how to allocate ESG funds, develop performance standards and evaluate outcomes, and develop funding, policies and procedures for the administration of HMIS.

The City staff serves as a representative on the Board of Governance for the Continuum of Care (CoC). The Board provides governance and strategic oversight to the CoC, monitors the established goals of the 10 Year Plan to End Homelessness, and serves as the planning body for the County's submission of the Riverside County Consolidated Application for HUD funds such as ESG. City staff has historically participated in rating grantee applications for ESG funding and have been instrumental in helping making determinations for the allocation of funds. The CoC developed a Homeless Management Information System (HMIS) working group to develop policies and procedures for the administration of the HMIS in the region. The working group has been instrumental in gaining compliance from HMIS users throughout the region. City staff attends the regional HMIS conference hosted by the CoC and Riverside County Department of Public Social Services

2. Describe Agencies, groups, organizations, and others who participated in the process and describe the jurisdictions consultations with housing, social service agencies and other entities.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Table 2 – Agencies, groups, organizations who participated

1	**Agency/Group/Organization**	HOUSING AUTHORITY OF RIVERSIDE COUNTY
	Agency/Group/Organization Type	Housing PHA Other government - County
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Public Housing Needs Non-Homeless Special Needs
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	Throughout the year, the City reviews proposed development sites, the comprehensive plan of the PHA, and any proposed demolition or disposition of public housing developments. In reviewing PHA comprehensive plan the City can determine regional housing needs as established by the PHA. It is anticipated this continued relationship with the PHA will allow the City to identify needs and gaps in service to improve service delivery.
2	**Agency/Group/Organization**	RIVERSIDE COUNTY CONTINUUM OF CARE
	Agency/Group/Organization Type	Housing PHA Services - Housing Services-Persons with HIV/AIDS Services-Victims of Domestic Violence Services-homeless Other government - County Regional organization Planning organization Civic Leaders
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Public Housing Needs Homeless Needs - Chronically homeless Homeless Needs - Families with children Homelessness Needs - Veterans Homelessness Needs - Unaccompanied youth Homelessness Strategy Anti-poverty Strategy
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the	The City is a member of the regional CoC. As a result of membership, the City regularly consults with various city, county, and local homeless service providers about all matter of homeless affecting the area. The City coordinates with the CoC for the

	consultation or areas for improved coordination?	Veterans, Youth, and general Point in Time Homeless Count in Moreno Valley.
3	**Agency/Group/Organization**	FAIR HOUSING COUNCIL OF RIVERSIDE COUNTY, INC.
	Agency/Group/Organization Type	Service-Fair Housing
	What section of the Plan was addressed by Consultation?	Housing Need Assessment
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	The City outreached to the Fair Housing Council of Riverside County (FHCRC) to assist the City in the development of the Consolidated. FHCRC was also instrumental in providing the City with key fair housing data to complete the Consolidated Plan.
4	**Agency/Group/Organization**	HABITAT FOR HUMANITY RIVERSIDE INC.
	Agency/Group/Organization Type	Housing
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Non-Homeless Special Needs Anti-poverty Strategy
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	The City regularly engages with the organization and discusses the coordination of local housing programs for low/moderate income and special needs populations (elderly and disabled).
5	**Agency/Group/Organization**	FAMILY SERVICE ASSOCIATION OF WESTERN RIVERSIDE COUNTY (FSA)
	Agency/Group/Organization Type	Services-Children Services-Elderly Persons Services-Persons with Disabilities Services-Persons with HIV/AIDS Services-Victims of Domestic Violence Services-Homeless Services-Health Services-Education Services-Employment

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	What section of the Plan was addressed by Consultation?	Housing Need Assessment Homeless Needs - Chronically homeless Homeless Needs - Families with children Homelessness Needs - Veterans Homelessness Needs - Unaccompanied youth Homelessness Strategy Non-Homeless Special Needs Anti-poverty Strategy
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	The City has had a long relationship with Family Services Association (FSA) and meets with the organization periodically to discuss community needs. It is anticipated that the City will continue to collaborate with FSA on meeting the needs of Moreno Valley residents.
6	**Agency/Group/Organization**	RIVERSIDE UNIVERSITY HEALTH SYSTEM-PUBLIC HEALTH AND BEHAVIORAL HEALTH
	Agency/Group/Organization Type	Services-Health Health Agency
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Non-Homeless Special Needs
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	The City outreached and reviewed information related to needs assessment and the obtained Mental Health Services Act.
7	**Agency/Group/Organization**	RIVERSIDE COUNTY OFFICE ON AGING
	Agency/Group/Organization Type	Services-Elderly Persons Services-Persons with Disabilities
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Non-Homeless Special Needs Anti-poverty Strategy
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the	The City obtained information on the elderly needs assessment, priority needs, and affordable housing developments serving seniors and disabled persons.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	consultation or areas for improved coordination?	
8	**Agency/Group/Organization**	CALIFORNIA DEPARTMENT OF PUBLIC HEALTH
	Agency/Group/Organization Type	Services-Health Other government - State
	What section of the Plan was addressed by Consultation?	Housing Need Assessment Non-Homeless Special Needs
	How was the Agency/Group/Organization consulted and what are the anticipated outcomes of the consultation or areas for improved coordination?	The Departments Health Facilities Consumer System was consulted for purposes of developing an inventory of Intermediate Care Facilities for Developmentally Disabled Persons and Congregate Care Facilities for the Elderly.

Identify any Agency Types not consulted and provide rationale for not consulting.

All relevant housing, social services and other entities were consulted. Other local/ regional/ state/ federal planning efforts considered when preparing the Plan are listed in the table below.

Other local/regional/state/federal planning efforts considered when preparing the Plan

Name of Plan	Lead Organization	How do the goals of your Strategic Plan overlap with the goals of each plan?
Continuum of Care	Riverside County Department of Public Social Services	The CoC plan and the City's Consolidated Plan are very consistent in their goals for the Region and are in agreement that a regional effort is required.
2020-2024 Area Plan	Riverside County Office on Aging	The 2020-2024 Area Aging Plan provided guidance to the needs assessment, priorities, and goals of the Consolidated Plan
General Plan	City of Moreno Valley	The General Plan was consulted to ensure that the goals of the Consolidated Plan align with the overall City goals.
Housing Element	City of Moreno Valley	The Housing Element was consulted to review the goals, policies, and programs related to housing conditions and needs.

Table 3 – Other local / regional / federal planning efforts

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe cooperation and coordination with other public entities, including the State and any adjacent units of general local government, in the implementation of the Consolidated Plan (91.215(l)).

The City coordinated efforts and consulted with several public entities including local governmental agencies such as the relevant County Departments, public housing organizations, and State government departments during the development of the Consolidated Plan. The Riverside County Public Housing Authority provided information regarding public and assisted housing in Moreno Valley. Entities were engaged via surveys, email and follow up correspondence, public meetings, and public hearings.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

PR-15 Citizen Participation – 91.105, 91.115, 91.200(c) and 91.300(c)

1. Summary of citizen participation process/Efforts made to broaden citizen participation

Summarize citizen participation process and how it impacted goal setting.

The city's citizen participation process and efforts were comprised of those noted in *Table 4-Citizen Participation Outreach.* Input received during the public participation process contributed to the goal setting for the Consolidated Plan.

Citizen Participation Outreach

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Sort Order	Mode of Outreach	Target of Outreach	Summary of Response/ Attendance	Summary of Comments Received	Summary of Comments Not Accepted and Reasons	URL (If applicable)
1	Online Survey	Non-target/ broad Community All interested persons	140 responses received	All comments were considered and incorporated in the appropriate sections of the Consolidated Plan	N/A	https://www.surveymonkey.com/r/MorenoValley-ConPlan
2	Public Meeting No. 1 – Nov. 22, 2022	Non-target/ broad Community All interested persons	A newspaper ad was published announcing Public Meeting 1: Finance Subcommittee to Review FY 23-24 AAP & Con Plan Calendar and objectives/ Policies. The ad was published on November 4, 2022.	No public comments received.	N/A	
3	Public Hearing No. 1 - Dec. 6, 2022	Non-target/ broad Community All interested persons	A newspaper ad was published to announce Public Hearing 1 to adopt Objectives/Policies and collect community needs comments. The ad was published on November 4, 2022.	No public comments received.	N/A	

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Sort Order	Mode of Outreach	Target of Outreach	Summary of Response/ Attendance	Summary of Comments Received	Summary of Comments Not Accepted and Reasons	URL (If applicable)
4	NOFA – Dec. 15, 2022	Non-target/ broad Community All interested persons	A newspaper ad was published to announce the FY 2023-24 Notice of Funding Availability (NOFA). The ad was published on December 15, 2022. Applications were due on January 31, 2023.	N/A	N/A	
5	NOFA Technical Assistance Workshop – Jan. 5, 2023	Non-target/ broad Community All interested persons	A technical assistance workshop was held to discuss the objectives and policies related to CDBG, HOME and ESG funding. The workshop was held on January 5, 2023. The workshop was attended by 23 potential applicants attended.	All questions were answered during the workshop.	N/A	
6	Public Meeting No. 2 – Mar. 28, 2023	Non-target/ broad Community All interested persons	A newspaper ad was published announcing Public Meeting 2: For the Finance Subcommittee to review the applications received to be considered for funding for FY 23-34. The ad was published on March 17, 2023.			

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Sort Order	Mode of Outreach	Target of Outreach	Summary of Response/ Attendance	Summary of Comments Received	Summary of Comments Not Accepted and Reasons	URL (If applicable)
7	Public Hearing No. 2 - Apr. 18, 2023	Non-target/ broad Community All interested persons	A newspaper ad was published to announce Public Hearing 2: To review the applications for FY 23-34. The ad was published on March 17, 2023.	TBD, pending public hearing	TBD, pending public hearing	
8	Public Hearing No. 3 - May 16, 2023	Non-target/ broad Community All interested persons	A newspaper ad was published to announce the opening of the 30-day public comment period for the Consolidated Plan and Annual Action Plan. The Notice also noted Public Hearing 3 to the 2023-2028 Consolidated Plan and Annual Action Plan and Analysis of Impediments. The ad was published on April 14, 2023.	TBD, pending public hearing	TBD, pending public hearing	

Table 4 – Citizen Participation Outreach

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Needs Assessment

NA-05 Overview

Needs Assessment Overview

This section assesses the housing needs within Moreno Valley by analyzing various demographic and economic indicators. To understand the needs of the community, the broad trends in population, income, and household demographics must be analyzed first. Each of the sections that follow looks closely at specific housing factors and how they relate to the city's population.

Data Note: Many fields in this document are populated automatically by the IDIS system. To provide the most accurate and up-to-date analysis, additional data sources are often used.

NA-10 Housing Needs Assessment - 24 CFR 91.205 (a, b, c)

Summary of Housing Needs

The housing needs of a community are, like all items in the market economy, a product of supply and demand. However, determining the factors that impact supply and demand is much more complicated than building one house for one household. Changes in population, household size, availability of rental housing, income, and the condition of a property all work to shift the community's housing needs.

Overall, the city has experienced economic growth, but the growth has been relatively small. There is a need for affordable housing in Moreno Valley that meets the needs of the community. Not only will this likely require additional units, but the type of units must be taken into consideration. The quality of the city's housing stock, which includes age, and the condition of the structure can contribute to housing problems, including housing affordability. The specific qualities needed by the community will be addressed throughout this document.

Demographics

Moreno Valley, like many communities throughout the country, has seen its population grow in recent years. Between 2010 and 2021, Moreno Valley's population grew by 10%, which is over twice the statewide growth rate of 4.8%. During the same period, the number of households in the city increased by 6%. When the population grows more quickly than the number of households it indicates an increase in average household size. Larger households may be overcrowded or face other housing problems. This may indicate a housing market that is not meeting the needs of the community.

According to US Census data, the median household income increased from $56,507 to $73,635 (+23%) between 2010 and 2021. However, that figure does not reflect the true change of purchasing power in the community because it is not adjusted for inflation (real dollars). When inflation is factored in, the actual increase in purchasing power is 1.6%.[1] Income growth is a positive indicator, but if housing costs have increased by more than 1.6% in real dollars then it is likely the number of cost burdened households is increasing. The change in housing costs is addressed later in this document in the Market Analysis.

Demographics	Base Year: 2010	Most Recent Year: 2021	% Change
Population	187,428	208,371	10%
Households	49,746	53,135	6%
Median Income	$56,507	$73,635	23%

Table 5 - Housing Needs Assessment Demographics

Data Source: 2006-2010 ACS, 2017-2021 ACS

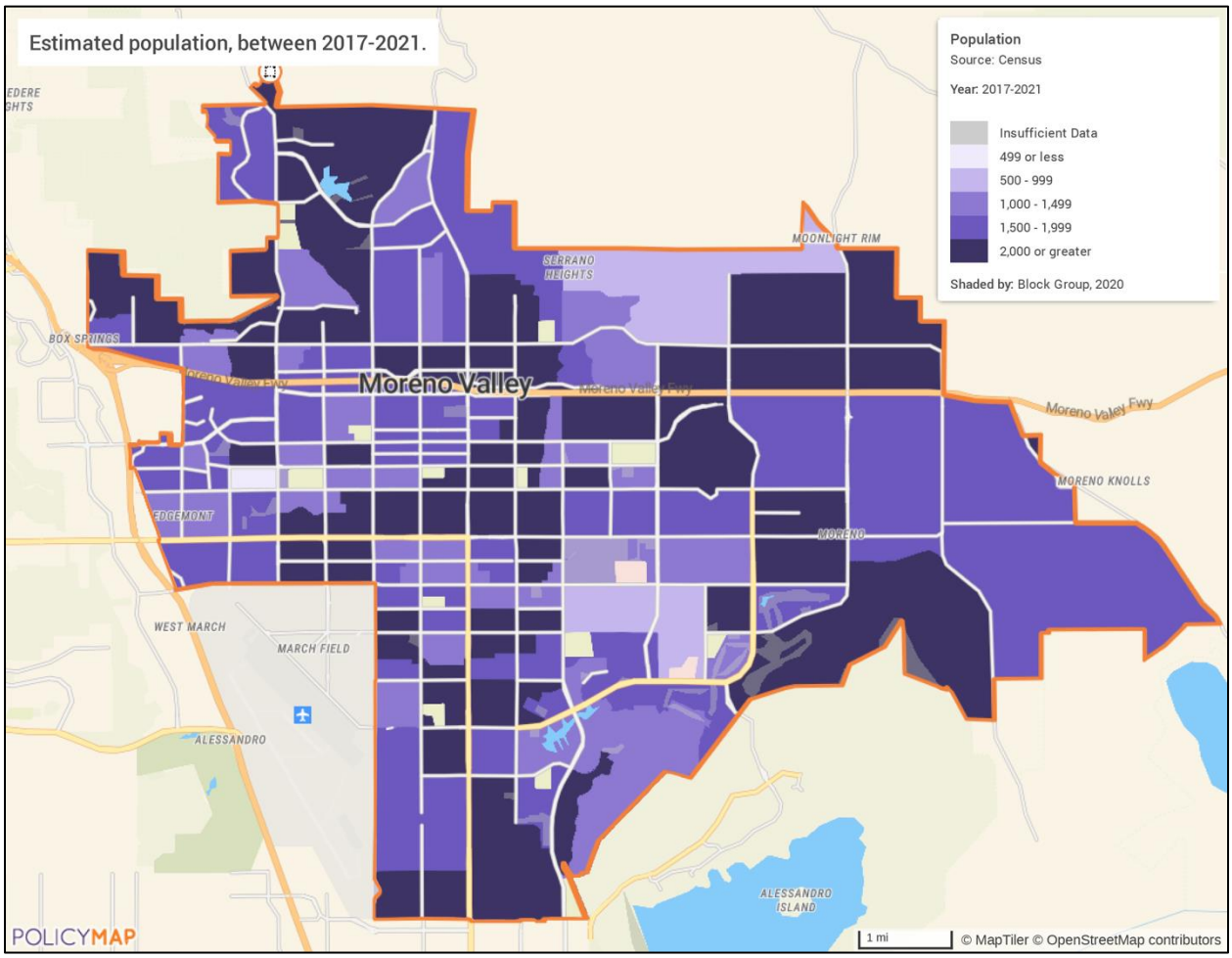
[1] Calculations made using the Bureau of Labor Statistics inflation calculator with January as the month used for both 2010 and 2021. https://www.bls.gov/data/inflation_calculator.htm

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

The maps below display the geographic distribution of demographic trends in the city across a few key indicators, including population change, median household income, and poverty. The block groups shaded with lighter colors have fewer people, while darker block groups have a higher population.

Population

There is a fairly even distribution of the total population throughout the city with notably higher density in the smaller block groups that are zoned primarily residential (whether Suburban Residential, Multifamily, Residential 2 DU/AC). There are a few tracts in the city with relatively low populations, under 500 people. The lower population of some of these groups are due to large lot residential zoning in the northern parts of the city.

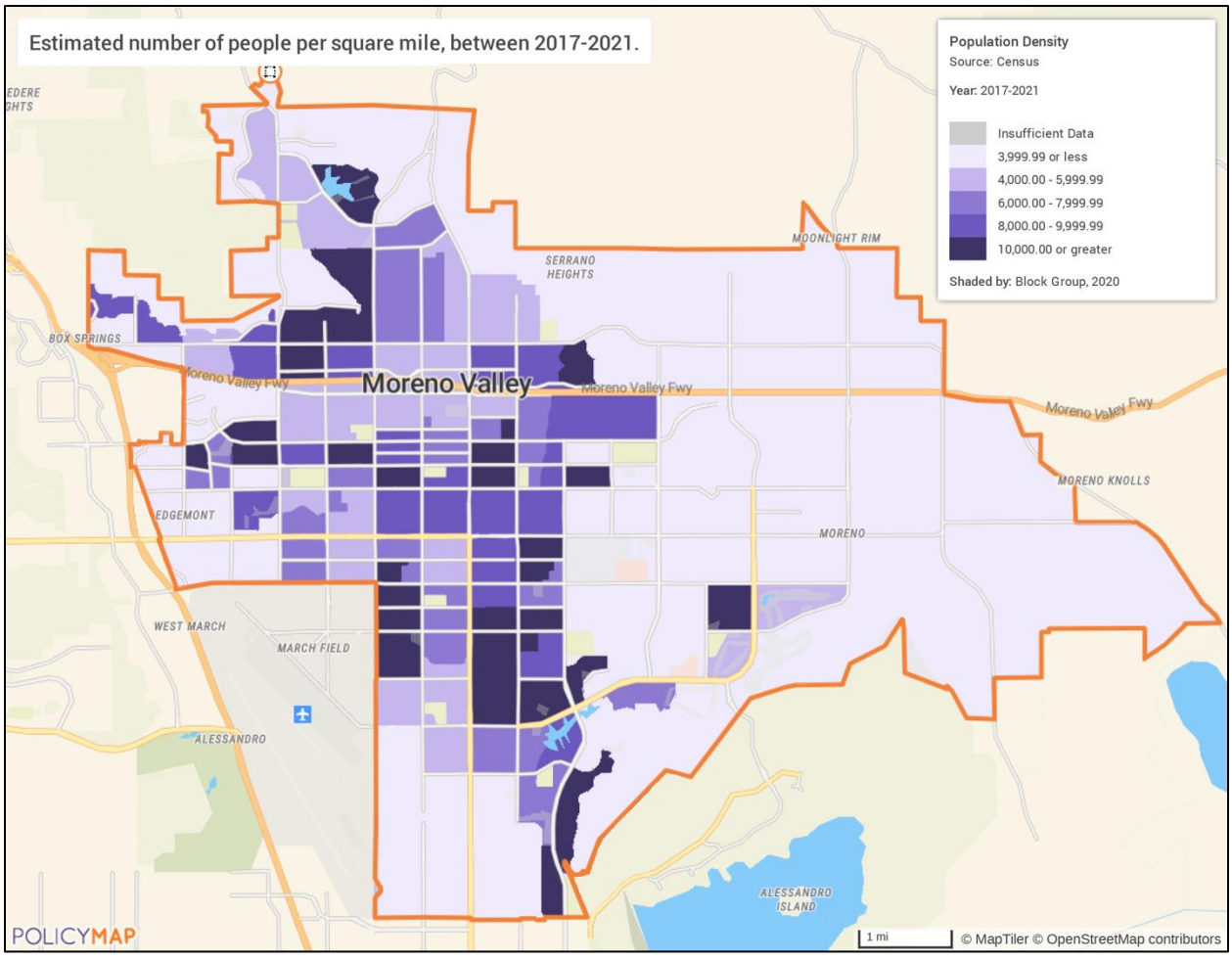


Source: 2017-2021 American Community Survey 5-Year Estimates

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Population Density

Block groups with the highest density of population reside in the central and western parts of the city, with a higher density level west and northwest of the downtown center. Many of the city's office space, commercial shopping, and mixed-use buildings are in these block groups.

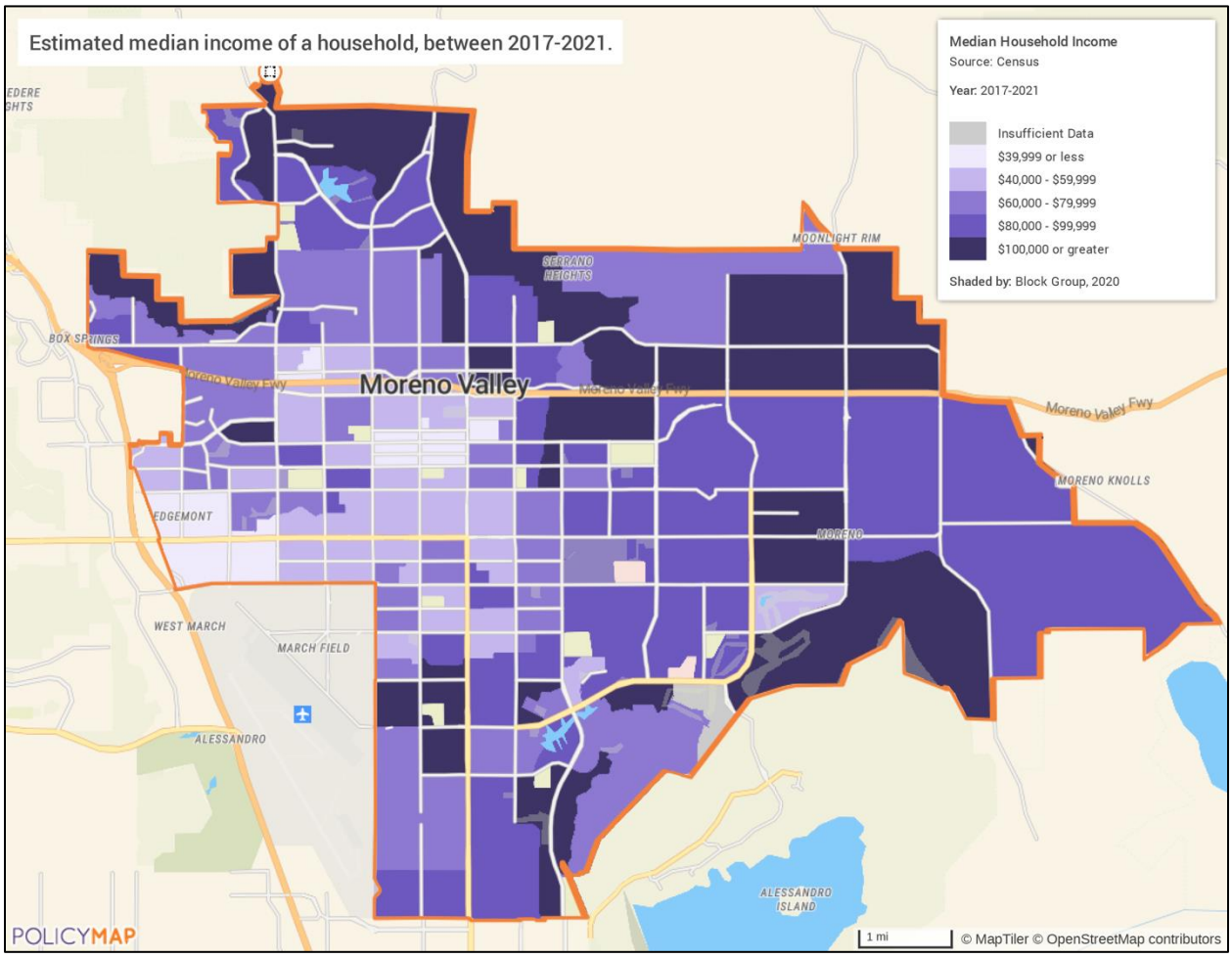


Source: 2017-2021 American Community Survey 5-Year Estimates

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Median Household Income

As noted earlier, the median household income has grown in the city by 23% to over $70,000 (though purchasing power has only increased by an estimated 1.6%). High income households are heavily concentrated in the same tracts that are more densely populated. Areas on the northern, eastern, and southern edges of the city have much higher median household incomes—over $100,000, while just a few blocks away the median household income can be less than half that amount.

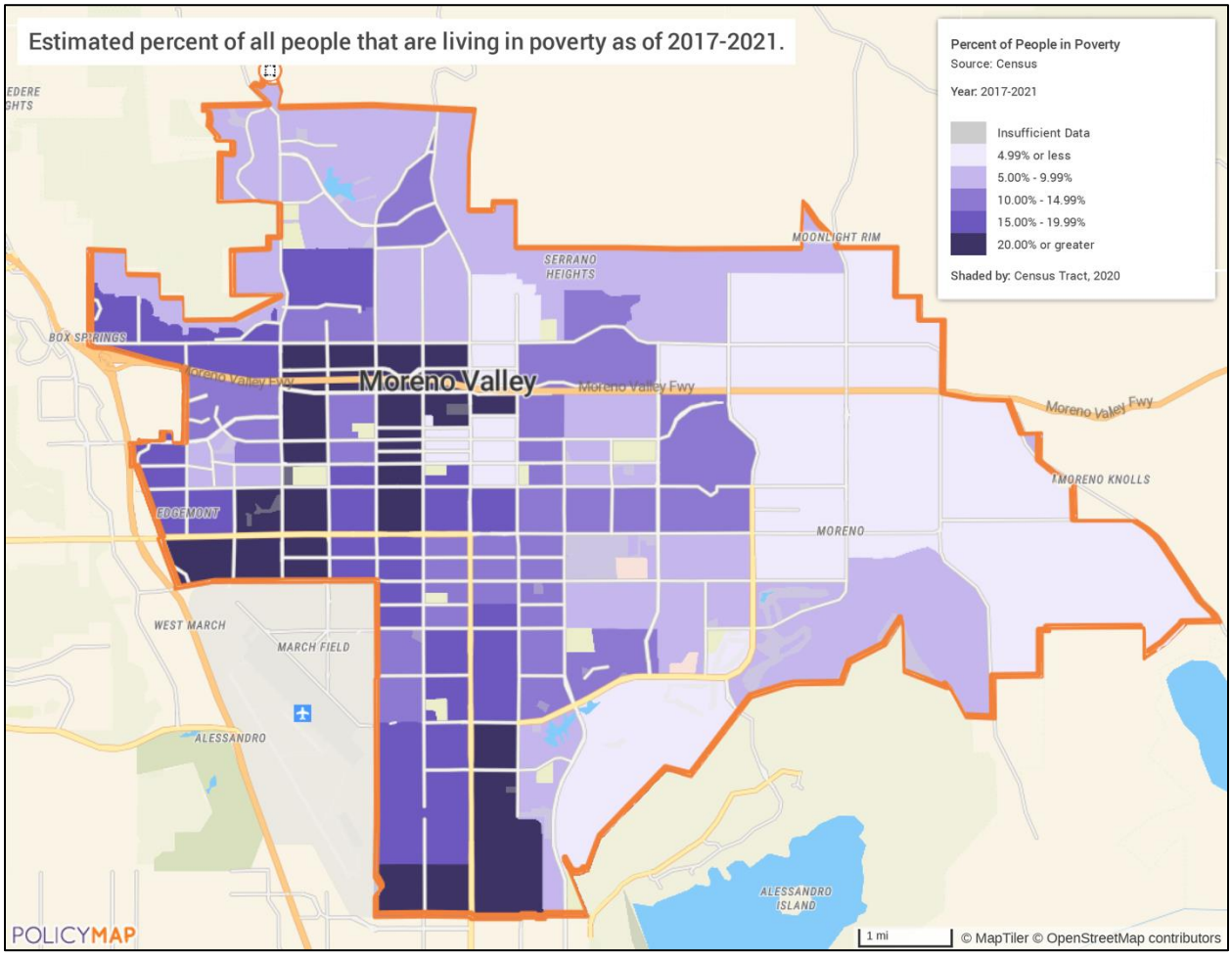


Source: 2017-2021 American Community Survey 5-Year Estimates

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Poverty

The map below displays the percentage of the population who live below the poverty level by census tract. Unsurprisingly, areas that have higher median income tend to have lower levels of poverty. The census tracts on the northern, eastern, and southern edges of the city have poverty rates below 10%, while tracts in the central and eastern areas of the city have rates above 20%.



Source: 2017-2021 American Community Survey 5-Year Estimates

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Number of Households Table

	0-30% HAMFI	>30-50% HAMFI	>50-80% HAMFI	>80-100% HAMFI	>100% HAMFI
Total Households	6,070	6,155	10,775	6,025	21,860
Small Family Households	2,680	2,910	4,945	2,925	11,555
Large Family Households	1,110	1,635	3,440	1,685	5,055
Household contains at least one person 62-74 years of age	1,180	1,360	2,065	1,120	5,330
Household contains at least one person age 75 or older	600	460	870	369	1,345
Households with one or more children 6 years old or younger	1,514	1,854	3,195	1,650	4,365

Table 6 - Total Households Table

Data Source: 2015-2019 CHAS

Data Source Comments: HAMFI stands for HUD Area Median Family Income.

In addition to the median household income, an important economic indicator is the distribution of wealth in the community. The above table shows family dynamics and income in the jurisdiction using data from the 2015-2019 Comprehensive Housing Affordability Study (CHAS). Median numbers can show growth and change, but alone they can provide an inaccurate view. By looking at the number of households within different income groups, a clearer picture can be found. According to 2015-2019 CHAS data, Moreno Valley has approximately 50,885 households. Of this number of households, 23,000 (45%) have low/moderate incomes (LMI), meaning they earn 0-80% of the area median income (AMI). The percentage of the LMI households was similar in the 2006-2010 ACS (43.3%).

In Moreno Valley, small families are more prevalent than large families, like the household trends of the nation. There appears to be a correlation between household type and income. Small family households are more common among households earning over 80% than those earning less and are more likely to earn 80% AMI or more than large family households. The most common housing types associated with earning less than the AMI are large households, households with a member between 62 and 74 years old, and households with children 6 years or younger. These factors are all related, and it is likely that many large households have children or are multigenerational with elderly household members.

Housing Needs Summary Tables

1. Housing Problems (Households with one of the listed needs)

	Renter					Owner				
	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total
NUMBER OF HOUSEHOLDS										
Substandard Housing - Lacking complete plumbing or kitchen facilities	95	25	4	4	128	4	35	0	10	49
Severely Overcrowded - With >1.51 people per room (and complete kitchen and plumbing)	120	150	130	90	490	4	130	160	45	339
Overcrowded - With 1.01-1.5 people per room (and none of the above problems)	500	460	800	220	1980	35	235	595	270	1135
Housing cost burden greater than 50% of income (and none of the above problems)	2680	1620	510	65	4875	1230	1275	740	95	3340

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	Renter					Owner				
	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total
Housing cost burden greater than 30% of income (and none of the above problems)	215	975	2,585	860	4,635	395	445	2,435	885	4,160
Zero/negative Income (and none of the above problems)	225	0	0	0	225	130	0	0	0	130

Table 7 – Housing Problems Table

Alternate Data Source: 2015-2019 CHAS

Housing Needs Summary

The table above provides information on housing problems in the city. Using 2015-2019 CHAS data, it provides the numbers of households experiencing each category of housing problem broken down by income ranges (up to 100% AMI) and owner/renter status. As defined by HUD in the Comprehensive Housing Affordability Strategy (CHAS) data, housing problems include:

- Units with physical defects (lacking complete kitchen or bathroom)
- Overcrowded conditions (housing units with more than one person per room)
- Housing cost burden (including utilities) exceeding 30% of gross income
- Severe housing cost burden (including utilities) exceeding 50% of gross income

Cost burden is by far the largest housing problem facing the city and is a common trend in many communities across the state and nation today. According to the 2015-2019 CHAS data there were 4,875 renters in the 0% to 100% AMI range spending more than 50% of their income on housing costs (100% AMI is the area median income) and an additional 4,635 spending 30-50% of their income on housing costs. This data also shows there were 3,340 homeowner households in the 0% to 100% AMI range spending more than 50% of their income on housing costs, and another 4,160 spending over 30% of their income on housing costs. These figures do not include households that earned more than 100% AMI, so the actual number of cost burdened households may be higher than the number shown in this table.

Housing problems in the city impact renter households more significantly than owner households. In general, renter-households experience substandard housing, overcrowding, and severe cost burdens to

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

a greater extent than owner- households. Of these housing problems, the most common in Moreno Valley is housing cost burden. Nearly 4,500 low/mod income households are cost burdened and 7,885 are severely cost burdened.

2. Housing Problems 2 (Households with one or more Severe Housing Problems: Lacks kitchen or complete plumbing, severe overcrowding, severe cost burden)

	Renter					Owner				
	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total
NUMBER OF HOUSEHOLDS										
Having 1 or more of four housing problems	3,615	3,225	4,030	1,235	12,105	1,670	2,120	3,930	1,310	9,030
Having none of four housing problems	345	185	735	1,120	2,385	90	620	2,080	2,360	5,150
Household has negative income, but none of the other housing problems	225	0	0	0	225	130	0	0	0	130

Table 8 – Housing Problems 2

Alternate Data Source: 2015-2019 CHAS

Severe Housing Problems

The data table above shows the number of households between 0% and 100% AMI that have one or more severe housing problems. Severe housing problems include lack of kitchen or complete plumbing, severe overcrowding, and severe cost burden. Severe housing problems are significantly less common than standard housing problems, but they are still present in the city. Low-income households 0-50% are most likely to have a severe housing problem. In total, approximately 21,000 households in the 0-100% AMI range have a severe housing problem.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

3. Cost Burden > 30%

	Renter				Owner			
	0-30% AMI	>30-50% AMI	>50-80% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	Total
NUMBER OF HOUSEHOLDS								
Small Related	45	90	580	715	20	295	955	1,270
Large Related	45	65	390	500	4	165	1,030	1,199
Elderly	145	20	20	185	30	115	150	295
Other	90	25	80	195	15	15	85	115
Total need by income	325	200	1,070	1,595	69	590	2,220	2,879

Table 9 – Cost Burden > 30%

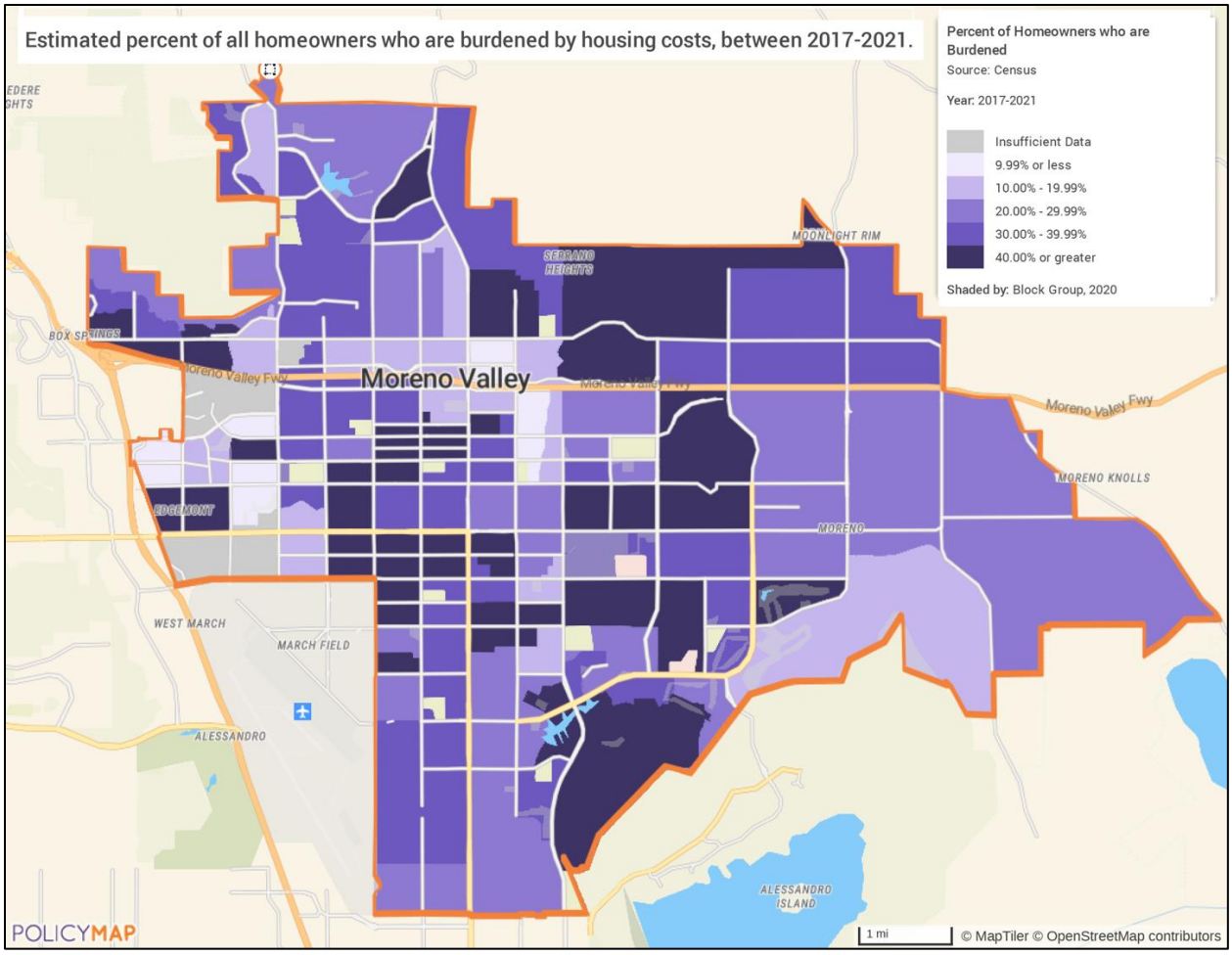
Alternate Data Source: 2015-2019 CHAS

The table above displays 2015-2019 CHAS data on cost-burdened households with income that is 0% to 80%. Households are considered cost burdened if they spend over 30% of their income on housing costs. There are nearly 4,500 households that are cost burdened in the community and there appears to be a relationship between housing type and cost burden. Elderly households show the greatest difference between overall population and extremely low-income population. Despite making up only 11% of the LMI population they make up 45% of the extremely low-income population. This is true for both homeowners and renters.

Housing Cost Burdened

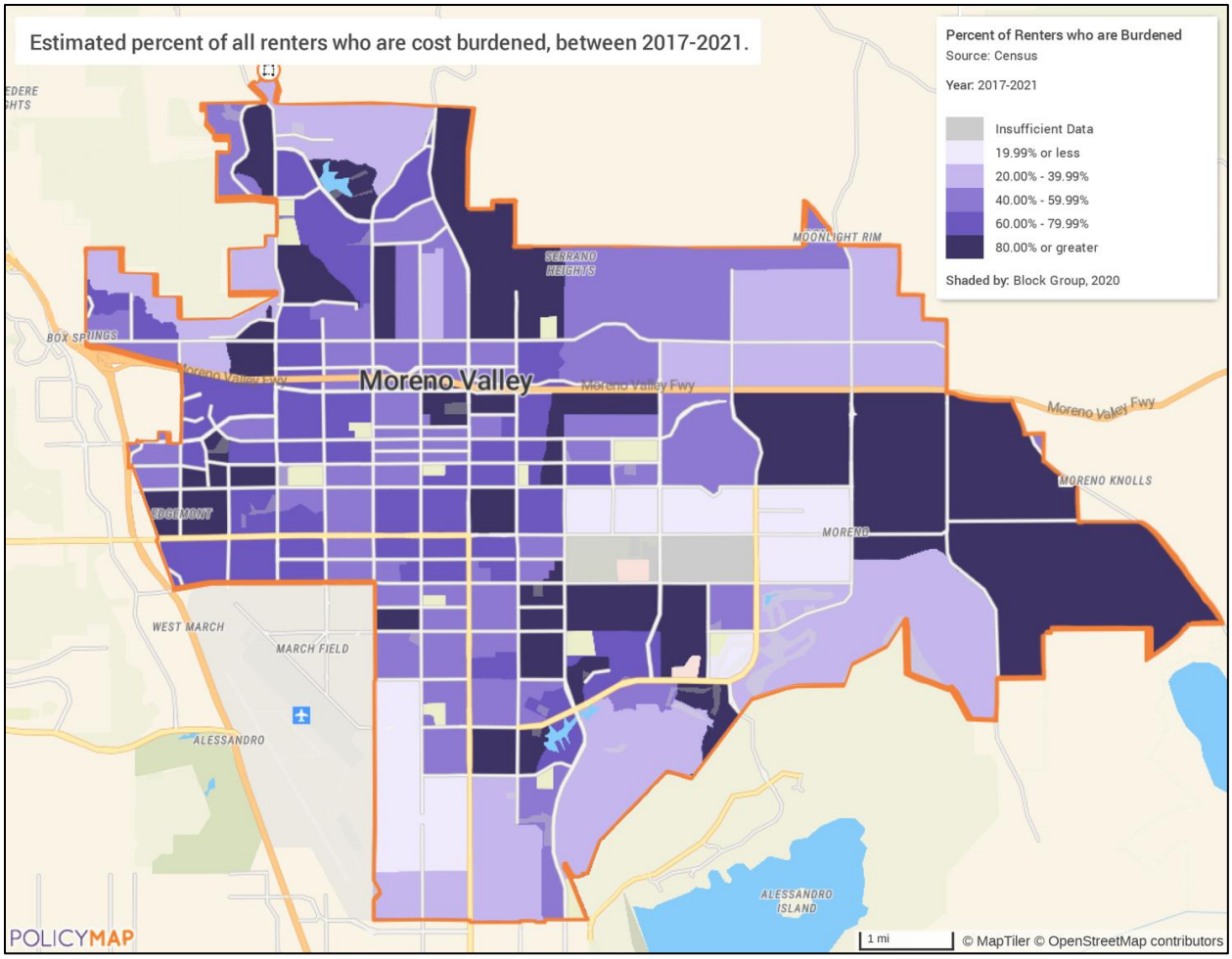
The following maps below display the percentage of the population who are cost-burdened by census tract using data from the 2017-2021 American Community Survey 5-Year Estimates. Despite higher median household incomes in the northern, western, and southern edges of the city, there are still high rates of cost burden, sometimes over 40% for homeowners and over 80% for renters.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Source: 2017-2021 American Community Survey 5-Year Estimates

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Source: 2017-2021 American Community Survey 5-Year Estimates

4. Cost Burden > 50%

	Renter				Owner			
	0-30% AMI	>30-50% AMI	>50-80% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	Total
NUMBER OF HOUSEHOLDS								
Small Related	1,735	915	285	2,935	630	630	305	1,565
Large Related	755	65	15	835	170	405	40	615
Elderly	230	20	60	310	210	110	130	450
Other	395	310	165	870	130	85	90	305
Total need by income	3,115	1,310	525	4,950	1,140	1,230	565	2,935

Table 10 – Cost Burden > 50%

Alternate Data Source: 2015-2019 CHAS

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Severe Cost Burden

The table above displays 2015-2019 CHAS data on cost-burdened households with income that is 0% to 80%. Households are considered severely cost burdened if they spend over 50% of their income on housing costs. There are no household types that are disproportionately likely to be extremely low income, but the sheer number of households with a severe cost burden is worth noting. There are nearly 8,000 households with a severe cost burden, which is 43% more than the number of households with just a standard cost burden. These 8,000 households are at the greatest risk of housing insecurity and homelessness, particularly renters who may face eviction if unexpected expenses arise.

5. Crowding (More than one person per room)

	Renter					Owner				
	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	>80-100% AMI	Total
NUMBER OF HOUSEHOLDS										
Single family households	525	480	675	150	1,830	39	245	460	100	844
Multiple, unrelated family households	105	130	260	155	650	0	125	295	220	640
Other, non-family households	15	0	0	0	15	0	4	0	0	4
Total need by income	645	610	935	305	2,495	39	374	755	320	1,488

Table 11 – Crowding Information – 1/2

Alternate Data Source: 2015-2019 CHAS

Overcrowding

HUD defines an overcrowded household as one having from 1.01 to 1.50 occupants per room and a severely overcrowded household as one with more than 1.50 occupants per room. Overcrowding is less common than cost burden issues, but it is still present in nearly 4,000 households. Renters are more likely to have overcrowding issues, as well as households in the 50-80% AMI range. This supports the earlier data that showed an increase in housing size over the last decade.

The following table shows the number of overcrowded households with children present by tenure and income level. The larger number of households identified here means that overcrowding is not an issue limited to LMI households but is also present in households earning over 100% AMI.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	Renter				Owner			
	0-30% AMI	>30-50% AMI	>50-80% AMI	Total	0-30% AMI	>30-50% AMI	>50-80% AMI	Total
Households with Children Present	1,329	1,265	1,395	3,989	185	589	1,800	2,574

Table 12 – Crowding Information – 2/2

Alternate Data Source Name: 2015-2019 CHAS

Describe the number and type of single person households in need of housing assistance.

According to the 2021 American Community Survey (ACS), there are 6,176 single person households in the city. Of those households, 3,427 are homeowners and 2,749 are renters. Over 52% of single person households are 35 to 64 years old. Householders 65 years and over make up 32% of single person households. These households are the group primarily in need of housing assistance due to the higher poverty rates and fixed incomes.

Estimate the number and type of families in need of housing assistance who are disabled or victims of domestic violence, dating violence, sexual assault, and stalking.

Persons with Disabilities

According to ACS data, 20,423 residents of Moreno Valley have a disability, making up 9.8% of the city's population. The most common disability is ambulatory difficulty, meaning the person has severe difficulty walking or climbing stairs. Over 9,800 persons report this difficulty. Approximately 6,800 of the disabled residents are over the age of 65. These seniors may need in home supportive services and eventually, as disabilities worsen, may need to relocate to one of the city's assisted living facilities.

As mentioned above, this population is most in need of financial housing assistance as well.

An exact count of those in need of housing assistance is difficult to determine but it is likely many residents with a disability either need housing assistance through financial support or access to homes that meet their needs. With over 20,000 households with one or more disabled person, it is reasonable to assume that such households also experience housing problems to the same or greater extent as households with no disabled members do. That is, problems such as cost burden and severe cost burden are also problems confronting households with a disabled member. Most homes require expensive modifications to accommodate the needs of residents.

Victims of Domestic Violence

According to the 2022 County of Riverside Point-in-Time Homeless Count, 95 persons experiencing homelessness reported being a victim of domestic violence. Statistics compiled by the California Department of Justice found that in 2021, there were 654 calls for assistance in Moreno Valley related

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

to domestic violence. Most of these instances (73%) did not involve a weapon. The FBI reported that 19 rapes were reported to law enforcement in Moreno Valley in 2019. Sexual assault and other intimate crimes are underreported. The National Coalition Against Domestic Violence states that only 25% of physical assaults, 20% of rapes, and 50% of stalking cases are reported to the police. Based on this information, it is likely that there are many more victims of domestic violence, dating violence, sexual assault and stalking that have not reported to law enforcement. It is imperative that survivors have access to housing and economic support to escape dangerous situations. Emergency shelter as well as counseling and other services often are needed by the victims of domestic violence, dating violence, sexual assault, and stalking.

What are the most common housing problems?

The most common housing problem identified in Moreno Valley is housing cost burden. According to the 2015-2019 CHAS data, over 12,350 low/mod income households are cost burdened (>30%) or severely cost burdened (>50%). Based on this data, among low- and moderate-income renters, 13% are cost burdened and 40% are severely cost burdened. Among all low- and moderate-income owners, 27% are cost burdened and another 27% are severely cost burdened. Low- and moderate-income households are especially adversely impacted by severe housing costs. This financial burden puts significant pressure on households and increases the likelihood of less-than-optimal living arrangements and risk of homelessness.

Are any populations/household types more affected than others by these problems?

Overall, household income is correlated with the likelihood that households are impacted by housing problems, particularly for renters. Residents with lower incomes have increased rates of cost burden and other substandard living conditions. Renters also experience crowding to a greater extent than owners. Elderly residents have a higher cost burden rate than other household types.

Additionally, residents with disabilities and those experiencing homelessness are particularly vulnerable to housing problems. A discussion of the prevalence of housing problems by race and ethnicity is discussed later in NA-15 to NA-30.

Describe the characteristics and needs of Low-income individuals and families with children (especially extremely low-income) who are currently housed but are at imminent risk of either residing in shelters or becoming unsheltered 91.205(c)/91.305(c)). Also discuss the needs of formerly homeless families and individuals who are receiving rapid re-housing assistance and are nearing the termination of that assistance.

The city has almost 1,700 extremely low-income renters in large, related families who are severely cost burdened. These families face difficulties in meeting their monthly housing obligations and could lose their housing because of financial constraints. Extremely low-income households (those at or below 30% of the area median income) spending more than 50% of their income for housing costs are particularly

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

vulnerable to an unexpected financial or personal crisis which could lead to homelessness. According to 2015-2019 CHAS data, 3,440 households fit these criteria and are at imminent risk of homelessness.

Single-parent households with children are the most vulnerable. They have a greater need for affordable housing, accessible childcare, health care, and other supportive services. Because of their lower income and higher living expenses, very low-income single-parent households are at imminent risk of becoming homeless. The major needs for these households are money management and budget counseling along with job training and affordable childcare. Formerly homeless families who are receiving rapid re-housing and are nearing the termination of that assistance are also in need of these same supportive services.

If a jurisdiction provides estimates of the at-risk population(s), it should also include a description of the operational definition of the at-risk group and the methodology used to generate the estimates:

Not applicable

Specify particular housing characteristics that have been linked with instability and an increased risk of homelessness.

Instability and increased risk of homelessness are associated with a lack of financial resources, temporarily living in the home of another, imminent eviction, or living in a motel. Death of a family member, medical expenses, or other unanticipated emergency expenditure, such as a major car repair, are particularly burdensome for families with low or fixed incomes that do not have the resources to pay for unanticipated costs. Extremely low-income households with a severe housing cost burden are most likely to lose their housing in the event of these unexpected expenses. According to the 2022 Moreno Valley Point In Time Count, 43% of unsheltered homeless persons reported that their reason for homelessness was attributed to family disruption. Some examples of this include death in the family, divorce, or violence. Additionally, 12% of the population attributed their homelessness strictly to lack of income or unemployment.

Income stagnation combined with rising rents increases the risk of homelessness. While efforts to produce affordable housing are important to reducing disproportionate housing needs, it also is important to find ways to increase household incomes through jobs with higher wages and other economic development strategies.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-15 Disproportionately Greater Need: Housing Problems – 91.205 (b)(2)

Introduction

A review of Housing Assessment data provided by HUD provides information that can be analyzed and used to determine any racial or ethnic groups that may have a proportionally higher housing need than other ethnic groups in the community. HUD has determined that a disproportionally higher need exists when the members of a racial or ethnic group at a given income level experience housing problems at a greater rate (10 percent or more) than the income level as a whole. Identifying and understanding any disproportionately greater needs due to housing problems is vital to the analysis of past programs and should help guide future programs to address disparities between groups in the community.

0%-30% of Area Median Income

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	5,285	785	0
White	805	145	0
Black / African American	1,415	245	0
Asian	250	25	0
American Indian, Alaska Native	30	0	0
Pacific Islander	0	0	0
Hispanic	2,645	280	0

Table 13 - Disproportionally Greater Need 0 - 30% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than one person per room, 4) Cost Burden greater than 30%

30%-50% of Area Median Income

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	5,345	805	0
White	710	165	0
Black / African American	945	90	0
Asian	350	65	0
American Indian, Alaska Native	30	0	0

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Pacific Islander	24	20	0
Hispanic	3,225	445	0

Table 14 - Disproportionally Greater Need 30 - 50% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than one person per room, 4) Cost Burden greater than 30%

50%-80% of Area Median Income

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	7,960	2,815	0
White	1,040	480	0
Black / African American	1,765	250	0
Asian	315	200	0
American Indian, Alaska Native	25	4	0
Pacific Islander	25	0	0
Hispanic	4,670	1,845	0

Table 15 - Disproportionally Greater Need 50 - 80% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than one person per room, 4) Cost Burden greater than 30%

80%-100% of Area Median Income

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	2,545	3,480	0
White	355	585	0
Black / African American	650	600	0
Asian	145	160	0

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Housing Problems	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
American Indian, Alaska Native	0	0	0
Pacific Islander	0	0	0
Hispanic	780	2,055	0

Table 16 - Disproportionally Greater Need 80 - 100% AMI

Alternate Data Source: 2013-2017 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than one person per room, 4) Cost Burden greater than 30%

Discussion

Extremely Low-Income (0-30% AMI)
Jurisdiction as a whole: 87.1%

In the extremely low-income group, there is one racial or ethnic group that is disproportionately impacted by housing problems. According to the available data, every American Indian or Alaska Native household in this group has a housing problem. This discrepancy should be analyzed but due to the low number of estimated households in this group (30 households), there is potentially a high margin of error in this estimate.

Very Low-Income (30-50% AMI)
Jurisdiction as a whole: 86.9%

The overall rate of housing problems for very low-income households is very similar to extremely low-income households. As with the above group, there is one racial or ethnic group that is disproportionately impacted. Again, every American Indian or Alaska Native household reports a housing problem in this income group and the estimated population size is small (30 households).

Low-Income (50-80% AMI)
Jurisdiction as a whole: 73.9%

The rate of housing problems shows a significant decrease for low-income households when compared to lower income groups, but there are still many households with housing problems. In this income group there are three racial or ethnic groups that are disproportionately impacted. Approximately 87%

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

of Black or African American households, 86.2% of American Indian or Alaska Native households, and 100% of Pacific Islander households report at least one housing problem. The largest group is Black or African American households and includes over 2,000 households, making up approximately 20% of the total population of this income group.

Moderate Income (80-100% AMI)
Jurisdiction as a whole: 42.2%

The largest change in the prevalence in housing problems is between low- and moderate-income groups. There are no groups disproportionately impacted by housing problems among moderate income households.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-20 Disproportionately Greater Need: Severe Housing Problems – 91.205 (b)(2)

Introduction

A review of Housing Assessment data provided by HUD provides information that can be analyzed and used to determine any racial or ethnic groups that may have a proportionally higher housing need than other ethnic groups in the community. HUD has determined that a proportionally higher need exists when the percentage of persons in each category is at least 10 percentage points higher than the percentage of persons in the category. Identifying and understanding any disproportionately greater needs due to severe housing problems is vital to the analysis of past programs and should help guide future programs to address disparities among groups in the community.

0%-30% of Area Median Income

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	4,670	1,400	0
White	605	345	0
Black / African American	1,235	425	0
Asian	195	70	0
American Indian, Alaska Native	15	15	0
Pacific Islander	0	0	0
Hispanic	2,485	450	0

Table 17 – Severe Housing Problems 0 - 30% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than 1.5 persons per room, 4) Cost Burden greater than 50%

30%-50% of Area Median Income

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	3,930	2,220	0
White	490	385	0
Black / African American	725	310	0
Asian	275	145	0

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
American Indian, Alaska Native	30	0	0
Pacific Islander	15	29	0
Hispanic	2,345	1,325	0

Table 18 – Severe Housing Problems 30 - 50% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than 1.5 persons per room, 4) Cost Burden greater than 50%

50%-80% of Area Median Income

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	2,940	7,835	0
White	395	1,120	0
Black / African American	640	1,375	0
Asian	80	440	0
American Indian, Alaska Native	20	4	0
Pacific Islander	15	10	0
Hispanic	1,755	4,760	0

Table 19 – Severe Housing Problems 50 - 80% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than 1.5 persons per room, 4) Cost Burden greater than 50%

80%-100% of Area Median Income

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Jurisdiction as a whole	795	5,230	0
White	90	850	0
Black / African American	125	1,125	0

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Severe Housing Problems*	Has one or more of four housing problems	Has none of the four housing problems	Household has no/negative income, but none of the other housing problems
Asian	50	255	0
American Indian, Alaska Native	0	0	0
Pacific Islander	0	0	0
Hispanic	350	2,925	0

Table 20 – Severe Housing Problems 80 - 100% AMI

Alternate Data Source: 2015-2019 CHAS

*The four housing problems are 1) Lacks complete kitchen facilities, 2) Lacks complete plumbing facilities, 3) More than 1.5 persons per room, 4) Cost Burden greater than 50%

Discussion

Extremely Low-Income (0-30% AMI)
Jurisdiction as a whole: 76.9%.

In the extremely low-income group approximately 4,670 households have a severe housing problem, making up over 75% of the population. However, there are no racial or ethnic groups that are disproportionately impacted by severe housing problems.

Very Low-Income (30-50% AMI)
Jurisdiction as a whole: 63.9%

The overall rate of housing problems for very low-income households is approximately 13% lower than for extremely low-income households. Similar to the housing problem data in NA-20, there is one group that is disproportionately impacted by severe housing problems in this income group. Every American Indian or Alaska Native household reports a severe housing problem in this income group.

Low-Income (50-80% AMI)
Jurisdiction as a whole: 27.3%

The rate of severe housing problems drops significantly for low-income households when compared to lower income groups. In Moreno Valley, an income level in this group appears to be a threshold level where households can live without severe housing problems, though housing problems are still prevalent (see NA-15). Despite the improvement from prior income groups, there are two racial or

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

ethnic groups that are disproportionately impacted. According to the available estimates, approximately 83.3% of American Indian or Alaska Native households and 60% of Pacific Islander households have a severe housing problem. The total number of households in these two groups is relatively small but this disparity still warrants consideration.

Moderate Income (80-100% AMI)
Jurisdiction as a whole: 13.2%

Moderate income households have the lowest rate of severe housing problems. There is one group that is disproportionately impacted, approximately 27.5% of Hispanic households have a severe housing problem.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-25 Disproportionately Greater Need: Housing Cost Burdens – 91.205 (b)(2)

Introduction

The following section analyzes the prevalence of a specific housing problem, cost burden. A household is considered to have a cost burden when they pay more than 30% of their income on housing costs. HUD has determined that a proportionally higher need exists when the percentage of persons in each category is at least 10 percentage points higher than the percentage of persons in the category. Identifying and understanding any disproportionately greater needs due to severe housing problems is vital to the analysis of past programs and should help guide future programs to address disparities between groups in the community.

Housing Cost Burden

Housing Cost Burden	<=30%	30-50%	>50%	No / negative income (not computed)
Jurisdiction as a whole	29,055	12,118	9,315	395
White	7,485	1,885	1,405	70
Black / African American	5,145	2,545	2,555	125
Asian	1,920	590	550	70
American Indian, Alaska Native	30	69	30	0
Pacific Islander	55	14	15	0
Hispanic	14,005	6,720	4,560	115

Table 21 – Greater Need: Housing Cost Burdens AMI

Alternate Data Source: 2015-2019 CHAS

Discussion:

For the purposes of this discussion, "Cost Burden" is broken into three separate categories. Households that spend between 30% and 50% have a *Standard Cost Burden,* households that spend more than 50% of their income on housing costs have *Severe Cost Burden,* and these two groups combined is the *Total Cost Burden.* By separating the data into these groups, it is possible to identify the degree of need of any groups that are disproportionately impacted by cost burden.

Standard Cost Burden

Jurisdiction as a whole: 24%

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

In Moreno Valley, there are over 12,000 households with a standard cost burden, making up nearly one-quarter of all households. There is only one group that is disproportionately impacted, approximately 53.4% of American Indian and Alaska Native households have a standard cost burden.

Severe Cost Burden
Jurisdiction as a whole: 18.5%

Severely cost burdened households are at a high risk of housing insecurity and experiencing homelessness. A minor financial problem could lead to default and/or eviction. There are currently nearly 10,000 households with a severe cost burden. There are no groups with a disproportionate impact.

Total Cost Burden
Jurisdiction as a whole: 42.5%

In total, over 20,000 households are cost burdened in the community. American Indian or Alaska Native households have a disproportionate impact, over 75% of these households have a cost burden. The actual prevalence of households who face financial pressure due to housing costs is actually higher because these figures do not include households that have zero or negative income.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-30 Disproportionately Greater Need: Discussion – 91.205(b)(2)

Are there any Income categories in which a racial or ethnic group has disproportionately greater need than the needs of that income category as a whole?

The available data identified American Indian and Alaska Native households as the group that is most frequently impacted by disproportionate need throughout multiple income groups. This population is relatively small but the frequency with which they appear points to a potential housing need to be addressed. Additionally, low-income Pacific Islander households reported disproportionately greater need for both housing problems, severe housing problems, and cost burden. Per the analysis in NA-25, the most common household problem for all racial or ethnic groups is cost burden.

Disproportionate Housing Problems:

- Extremely Low Income: American Indian or Alaska Native
- Very Low Income: American Indian or Alaska Native
- Low Income: Black or African American, American Indian or Alaska Native, Pacific Islander
- Moderate Income: None

Disproportionate Severe Housing Problems:

- Extremely Low Income: None
- Very Low Income: American Indian or Alaska Native
- Low Income: American Indian or Alaska Native, Pacific Islander
- Moderate Income: Hispanic

Standard Cost Burden: American Indian or Alaska Native

Extreme Cost Burden: None

Total Cost Burden: American Indian or Alaska Native

If they have needs not identified above, what are those needs?

No additional needs were identified that disproportionately impact households based on race or ethnicity. Household income is the primary indicator for both housing and non-housing. Additional information can be found throughout the document, including public and assisted housing needs by race or ethnicity in NA-35 and disparities in housing locations and income in MA-50.

Are any of those racial or ethnic groups located in specific areas or neighborhoods in your community?

There are some areas that have a concentration of racial or ethnic groups. There are multiple tracts that have a concentration of Black, non-Hispanic residents. One area encompasses multiple tracts on the northwest side of the city and one area is in the southern tip. There are a few tracts that have a concentration of multiracial, Hispanic residents. There are two general areas with a concentration of this

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

population. One area encompasses tracts on the northcentral part of the city and one area is in the south. Moreno Valley has also multiple census tracts that have a concentration of Hispanic residents. The southwest quadrant of the city has a larger Hispanic population relative to other parts of the city. A more detailed analysis of the geographic distribution of different racial and ethnic groups and income levels can be found in MA-50.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

NA-35 Public Housing – 91.205(b)

Introduction

The City of Moreno Valley does not have a designated Public Housing Authority. Therefore, the city does not own or manage any housing directly or operate any voucher programs. However, the Housing Authority of the County of Riverside (HACR) serves the entire county, including residents of Moreno Valley, through the administration of voucher programs and public housing units. Additionally, the city has invested housing funds into the construction and rehabilitation of affordable multi-family rental projects in partnership with developers throughout the city. In return, the project owners provide discounted, below-market rents to income-qualified tenants during the term of their agreements with the city. Units in developments priced at a "below market rate" are made affordable to varied incomes ranging from very low to moderate income households (30% -120% AMI). Each project has a specific number of units reserved at below market rates, as well as specific income requirements for the units. The city does not own or manage any housing directly.

Totals in Use

	Program Type								
	Certificate	Mod-Rehab	Public Housing	Vouchers					
				Total	Project - based	Tenant - based	Special Purpose Voucher		
							Veterans Affairs Supportive Housing	Family Unification Program	Disabled *
# of units vouchers in use	0	79	456	8,748	36	8,364	135	178	19

Table 22 - Public Housing by Program Type

***includes Non-Elderly Disabled, Mainstream One-Year, Mainstream Five-year, and Nursing Home Transition**

Data Source: PIC (PIH Information Center)

Characteristics of Residents

Program Type								
	Certificate	Mod-Rehab	Public Housing	Vouchers				
				Total	Project - based	Tenant - based	Special Purpose Voucher	
							Veterans Affairs Supportive Housing	Family Unification Program
Average Annual Income	0	12,664	13,261	13,870	10,805	13,850	13,465	14,983
Average Length of Stay	0	6	4	6	2	6	0	5
Average Household Size	0	1	3	2	1	2	1	3
# Homeless at Admission	0	2	331	205	1	197	2	5
# of Elderly Program Participants (>62)	0	67	38	3,249	9	3,211	15	10
# of Disabled Families	0	12	70	2,587	26	2,422	82	33
# of Families Requesting Accessibility Features	0	79	456	8,748	36	8,364	135	178
# of HIV/AIDS Program Participants	0	0	0	0	0	0	0	0
# of DV Victims	0	0	0	0	0	0	0	0

Table 23 – Characteristics of Public Housing Residents by Program Type

Data Source: PIC (PIH Information Center)

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Race of Residents

Program Type									
Race	Certificate	Mod-Rehab	Public Housing	Vouchers					
				Total	Project - based	Tenant - based	Special Purpose Voucher		
							Veterans Affairs Supportive Housing	Family Unification Program	Disabled *
White	0	66	318	5,469	26	5,195	79	144	15
Black/African American	0	10	126	2,967	8	2,867	55	29	3
Asian	0	1	9	209	2	203	0	2	1
American Indian/Alaska Native	0	0	2	80	0	76	1	3	0
Pacific Islander	0	2	1	23	0	23	0	0	0
Other	0	0	0	0	0	0	0	0	0
*includes Non-Elderly Disabled, Mainstream One-Year, Mainstream Five-year, and Nursing Home Transition									

Table 24 – Race of Public Housing Residents by Program Type

Data Source: PIC (PIH Information Center)

Ethnicity of Residents

Program Type									
Ethnicity	Certificate	Mod-Rehab	Public Housing	Vouchers					
				Total	Project - based	Tenant - based	Special Purpose Voucher		
							Veterans Affairs Supportive Housing	Family Unification Program	Disabled *
Hispanic	0	29	250	2,318	7	2,220	13	74	1
Not Hispanic	0	50	206	6,430	29	6,144	122	104	18
*includes Non-Elderly Disabled, Mainstream One-Year, Mainstream Five-year, and Nursing Home Transition									

Table 25 – Ethnicity of Public Housing Residents by Program Type

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Data Source: PIC (PIH Information Center)

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Section 504 Needs Assessment: Describe the needs of public housing tenants and applicants on the waiting list for accessible units.

Not applicable. The City of Moreno Valley does not own or manage any public housing directly.

Most immediate needs of residents of Public Housing and Housing Choice voucher holders.

Public housing units are not located in the City of Moreno Valley. The HACR administers Housing Choice Vouchers to residents of the city and the most immediate need for these residents is continued rental assistance. Vouchers enable residents to remain stably housed while also being able to use their limited financial resources to meet other basic needs such as food security.

How do these needs compare to the housing needs of the population at large.

Moreno Valley's extremely low-income renters have needs similar to voucher holders: food insecurity and other basic human needs. However, many extremely low-income renters do not receive Housing Choice Vouchers and therefore, residents that do receive rental assistance through the HCV program tend to have similar but more severe needs.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

NA-40 Homeless Needs Assessment – 91.205(c)

Introduction

Homelessness is an incredibly complex issue that most communities across the country are struggling to address. The major reason that homelessness is difficult to address is that it has many overlapping and interrelated causes and variables. Homelessness is impacted by multiple factors and is typically caused by the convergence of many events and conditions. Homelessness can be an economic problem caused by unemployment or underemployment, lack of affordable housing options, and/or poverty. Homelessness can also be a health issue because many homeless persons struggle with mental illness, physical disabilities, HIV, substance abuse, or a combination of health factors. Another way to view homelessness is as a social problem, caused by factors such as domestic violence, educational attainment, and racism. Homelessness can be caused by all these issues, and they are often interrelated. Due to this complexity, fighting homelessness requires a collaborative and community-based approach.

The Stewart B. McKinney Homeless Assistance Act defined “homeless” or “homeless person” as an individual who lacks a fixed, regular, and adequate night-time residence; and who has a primary night-time residence that is:

- A supervised publicly or privately-operated shelter designed to provide temporary living accommodations (including welfare hotels, congregate shelters, and transitional housing for the mentally ill).
- An institution that provides a temporary residence for individuals intended to be institutionalized; or
- A public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for human beings.

Moreno Valley is part of the Riverside County Continuum of Care, which was formed in 2020.

The Continuum of Care oversees the community's plan to organize and deliver supportive social services, including housing options, which meet the specific needs of homeless individuals and families. Ultimately, the goal of the Continuum is to move homeless people toward stable housing and maximum self-sufficiency.

According to the 2022 Moreno Valley Point in Time (PIT) Count, 87 persons are experiencing homelessness during a single night in the city. Most persons experiencing homelessness are unsheltered. The major challenges and barriers of these persons include substance abuse (44%), chronic health issues (24%), traumatic brain injury (22%), and PTSD (22%). These populations need intensive supportive services in addition to housing. Of the persons counted in the 2022 Count, 43% were experiencing homelessness for the first time. Homelessness continues to be a problem facing the city as additional households are falling into homelessness daily.

Homeless Needs Assessment

Population	Estimate the # of persons experiencing homelessness on a given night		Estimate the # experiencing homelessness each year	Estimate the # becoming homeless each year	Estimate the # exiting homelessness each year	Estimate the # of days persons experience homelessness
	Sheltered	Unsheltered				
Persons in Households with Adult(s) and Child(ren)	0	0	31	0	9	185
Persons in Households with Only Children	0	0	5	0	4	59
Persons in Households with Only Adults	10	77	105	0	39	195
Chronically Homeless Individuals	0	30	5	0	5	201
Chronically Homeless Families	0	0	5	0	5	201
Veterans	0	4	6	0	3	0
Unaccompanied Child	0	18	0	0	0	0
Persons with HIV	0	0	0	0	0	0

Table 27 - Homeless Needs Assessment

Alternate Data Source Name: 2022 Moreno Valley PIT Count; Riverside County Continuum of Care HMIS
Data Source Comments: Population details were only provided for unsheltered persons

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

If data is not available for the categories "number of persons becoming and exiting homelessness each year," and "number of days that persons experience homelessness," describe these categories for each homeless population type (including chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth).

HMIS data from the homeless projects located in Moreno Valley that patriciate in the data system was used to estimate the number of persons experiencing homelessness and exiting homelessness and number of days those persons experienced homelessness. HMIS data is not available on the number of persons becoming homeless each year. Approximately 39 adult only households, 4 children only households, and 9 households with both adults and children exit homelessness each year. On average, chronically homeless individuals, and households experience homelessness for 201 days. Adult only households spend an average of 195 days homeless and households with adults and children spend 185 days homeless.

Additional information on each homeless population type is provided below:

Chronically Homeless – Residents are considered to be experiencing chronic homelessness if they have a disabling condition and have been consecutively experiencing homelessness for one year or more or had four separate episodes of homelessness in the last three years, totaling twelve months. In 2022, 30 people experiencing homelessness who were counted on the night of the PIT Count experienced chronic homelessness. Approximately 39% of those experiencing unsheltered homelessness were also chronically homeless. These are the most vulnerable residents experiencing homelessness.

Families with Children – Households that include at least one adult and one person under the age of 18 are considered as a family with children. Children raised in households that experience homelessness are likely to experience housing instability into adulthood. In the 2022 PIT Count, no families with children were counted. HMIS data reports that 31 families with children experience homelessness each year.

Veterans – Providing additional resources and support for veterans is a priority for communities across the country. During the 2022 PIT Count, there were 4 veterans experiencing unsheltered homelessness. It is estimated that 6 veterans experience homelessness each year. Homeless veterans often also experience chronic homelessness.

Unaccompanied Youth – Individuals who are between the ages of 18 and 24 years old that lack a fixed, regular, nighttime residence are considered unaccompanied youth. 18 unaccompanied youth were counted in the 2022 PIT Count. HMIS is data is not available on the number of unaccompanied youths who experience homelessness each year.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Nature and Extent of Homelessness: (Optional)

Race	Sheltered	Unsheltered (optional)
White	7	31
Black or African American	3	20
Asian	0	1
American Indian or Alaska Native	0	5
Pacific Islander		1
Ethnicity	**Sheltered**	**Unsheltered (optional)**
Hispanic	2	31
Not Hispanic	8	34

Alternate Data Source Name: 2022 Moreno Valley PIT Count
Data Source Comments: Population details were only provided for unsheltered persons. The table above does not include person experiencing homelessness that are multiple races. Of the unsheltered homeless population identified in the 2022 PIT Count, 8 individuals identified as multiple races.

Estimate the number and type of families in need of housing assistance for families with children and the families of veterans.

Homeless children face a litany of complexities and problems that can contribute to a pattern of homelessness into adulthood if they are not addressed early on. Housing insecurity and homelessness influence educational attainment. Lack of transportation, volatile living conditions, and general instability make showing up to school a challenge, and learning and excelling in these conditions is often impossible. Based on the Point in Time Count, 0 homeless persons were in families that included at least one adult and one child. Families experiencing homelessness are often "hidden." According to CoC HMIS data 31 families with children experience homelessness each year in Moreno Valley, and it is likely that there are additional families experiencing homelessness in the city that need housing assistance. Four veterans were counted in the 2022 PIT Count and HMIS reports 6 veterans experience homelessness each year.

Describe the Nature and Extent of Homelessness by Racial and Ethnic Group.

Homeless individuals are more likely to identify as White than any other racial or ethnic group. Over 43% of all residents experiencing homelessness during the 2022 Point in Time Count identified as White. However, according to ACS data White residents make up only 29% of the city's population. It should be noted that over 44% of the city's population identify as "some other race." The city has a high Hispanic population, and it is possible that the survey participants do not understand the difference between race and ethnicity and are answering the question incorrectly. With this data, it cannot be determined if White residents are disproportionately represented among residents experiencing homelessness. Nearly 38% of the homeless population identified as Hispanic in the 2022 Point in Time Count.

The second largest racial group is Black or African American residents making up 26% of the population experiencing unsheltered homelessness.

Describe the Nature and Extent of Unsheltered and Sheltered Homelessness.

Of those counted in the city's Point In Time Count approximately 89% were unsheltered. These persons face additional barriers to affordable housing and access to supportive services. Unsheltered residents were primarily White. Emergency shelter is extremely limited in Moreno Valley. Only 10 persons experiencing homelessness were staying in a shelter on the night of the count. Unsheltered homeless persons are most frequently sleeping on the street (35%) or in a tent or shed (17%).

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-45 Non-Homeless Special Needs Assessment - 91.205 (b, d)

Introduction

Non-homeless persons with special needs include the elderly; frail elderly; persons with mental, physical, and/or developmental disabilities; persons with drug and alcohol addictions; persons with HIV/AIDS and their families; and victims of domestic violence, sexual assault, and stalking. Members of these special needs populations often have low incomes. Data on special needs populations is limited, but there is a significant need for housing and/or supportive services for all special needs sub-populations and meeting these needs is a high priority for the city.

Describe the characteristics of special needs populations in your community.

Elderly: According to the 2021 ACS data, Moreno Valley's elderly population (65+) is comprised of 19,307 persons, which represents 9.3% of the total population. The city's elderly population is comprised of 8,321 men and 10,986 women. Over 1,200 elderly households (65+) are cost burdened or severely cost burdened. Of these cost burdened households, 60% are homeowners and 40% are renters. Approximately 10% of the elderly population of the city is below the poverty level.

The elderly population faces increased housing challenges, and providing decent, affordable housing is incredibly important. The elderly population is often on a limited income and/or has a disability, which puts financial pressure on them that reduces independence. As prices throughout the community inflate, the elderly population generally lacks the ability to increase their income to match.

Frail Elderly: Moreno Valley's frail elderly population could be as large as approximately 5,473 persons. This number is comprised of 1,984 seniors 65 years of age or older with a self-care limitation and 3,489 seniors with an independent living limitation It is possible that some elderly have both difficulties. Additionally, 4,454 city residents aged 65 and older report having an ambulatory difficulty, meaning they have serious difficulty walking or climbing stairs. Many of the frail elderly also live on fixed incomes and many need home modifications to help prevent falls.

Alcohol and Drug Addiction: Gathering accurate data about alcohol and drug addiction within a community is difficult. Addiction often goes unrecognized because people do not seek help due to fear of criminal charges and/or the social stigma associated with addiction and other medical health issues. Often people are only counted in statistics when they overdose, get arrested, or seek treatment. According to the 2020 data analyzed by Conduent Healthy Communities Institute, 19% of Moreno Valley adults binge drank in the last 30 days. This is slightly higher than the national average of 15.5%. The age-adjusted death rate due to drug use in Riverside County between 2018 and 2020 was 23.1 deaths per 100,000 persons. This rate has seen significant increases in recent years. Between 2016 and 2018, the rate was 17.5 deaths per 100,000 persons. The age-adjusted emergency department visit rate due to drug overdose was 133.5 per 100,000 persons. Additionally, 3% of Riverside County residents are opioid prescription patients. Opioid use can often lead to drug abuse and addiction.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Disabilities: According to 2017-2021 ACS data (S1810), there are 20,423 residents with disabilities in Moreno Valley making up 9.8% of the population. The most common disability is ambulatory difficulty, and 9,868 residents report this difficulty. By age, 13.5% percent of disabled persons are under 18, 15.9% are ages 18 to 34, 37.3% are 35 to 64, and 33.2% are 65 and older.

Survivors of Abuse and Sexual Assault: Statistics compiled by the California Department of Justice found that in 2021, there were 654 calls for assistance in Moreno Valley related to domestic violence. Most of these instances (73%) did not involve a weapon. The FBI reported that 19 rapes were reported to law enforcement in Moreno Valley in 2019. Sexual assault and other intimate crimes are underreported so it is likely additional persons are survivors of abuse and sexual assault. These victims face numerous barriers to housing such as limited incomes, lack of a credit history, landlord discrimination, and need for additional supportive services.

What are the housing and supportive service needs of these populations and how are these needs determined?

Elderly and Frail Elderly: Providing secure, safe, affordable, and stable housing for the elderly population is vitally important. There are many factors that contribute to a healthy environment for the elderly including, but not limited to, access to health care, shopping, social networks, bathing, housework, etc. Seniors that participated in the 2020-2024 Area Plan on Aging needs assessment process for Moreno Valley indicated that their top needs for assistance were meal preparation, transportation, and housework. A robust public transportation network is needed to assist the elderly remain active and independent and with access to needed services. Additionally, elderly residents' homes may need modifications to assist with disabilities that may develop as they age. Seniors are also in need of access to food programs. With their limitations, they may not be able to regularly access a meal program. In a survey conducted at a meal program site for the Area Plan on Aging needs assessment, only 7% of respondents stated that they can cook for themselves days that the food program is closed.

Disability: In general, the special housing needs of the disabled populations include independent living units with affordable housing costs; supportive housing with affordable housing costs; and housing with design features that facilitate mobility and independence. The shortage of available, accessible, and/or affordable housing is an acute problem for most people with disabilities (PWD). The individuals who have more independent skills tend to utilize subsidized housing options. Individuals requiring more support find residences in publicly funded community homes either sharing settings or privately-owned personal care settings. Many individuals continue to reside with parents and families throughout adulthood. Regardless of housing situation, a common thread is the need for continuous supportive services based on varying levels of capability.

Persons with Alcohol/Drug Addictions: Individuals with substance abuse problems need a strong network to stay healthy and sober. Health professionals have identified the following needs: raise awareness about prescription drug abuse; make usage of California's prescription drug monitoring program, Controlled Substance Utilization Review and Evaluation System (CURES) which can be used to identify clinicians with patterns of inappropriate prescribing and dispensing controlled substances,

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

mandatory; and assistance with the safe disposal of prescription drugs. Housing needs for persons with substance use issues include sober living environments, support for employment, access to health facilities, and easy access to family and friend networks. Additionally, detoxification facilities are necessary when addiction is first recognized.

Survivors of Abuse and Sexual Assault: Women who are victims of domestic violence experience unique housing issues. Women and their children are often forced to move out of their homes away from their abuser to seek other housing where they are safe. Emergency housing is needed to fill a short-term need.

There is a high need for continued care and case management to support this population. There is a need for additional emergency, transitional, and permanent affordable housing that can care for families, particularly women with children. Survivors need additional support including economic support, counseling, medical care, and more to ensure escape from dangerous households. Barriers are confronted when seeking permanent housing because of limited incomes, lack of credit, and housing discrimination. Transitional housing and transitional housing with supportive services can help address these barriers.

Discuss the size and characteristics of the population with HIV/AIDS and their families within the Eligible Metropolitan Statistical Area.

The Riverside County HIV/STD Program housed at the Riverside University Health System publishes HIV/AIDS data for the County and its municipalities. According to the Program's 2020 report, the prevalence of persons living with HIV/AIDS (PLWH) in Moreno Valley was 228.9 per 100,000 persons in 2020, while the prevalence for all Riverside County was 422.0 per 100,000 persons. The prevalence rate refers to persons living with HIV disease who were reported to be living in Moreno Valley regardless of time of infection or date of diagnosis. The average HIV incidence of Moreno Valley between 2018 and 2020 was 12.3 per 100,000 population. During the same period, the average HIV incidence for Riverside County was 11.1 per 100,000 population. The rate of incidence is the number of newly diagnosed cases of HIV in the population during the period.

Moreno Valley is in Western Riverside County, and 22% of the persons living with HIV/AIDS in Riverside County live in the western part of the County. The greatest proportion of African American Persons Living with AIDS are in west Riverside County. Approximately 73% of all people living with HIV in west Riverside County are people of color compared to 29.9% in the rest of Riverside County. Additionally, West Riverside County is home to a younger and more diverse group of PLWH than the east region. The median age of persons living with HIV in the west part of the county is 47 years, compared to 59 in the rest of the county. Nearly 35% of all people living with HIV in west county are under 40 years old. In the rest of Riverside County, only 10.6% of those living with HIV/AIDS are younger than 40.

Persons living with HIV/AIDS and their families may require housing that provides emergency, transitional, or long-term affordable solutions. A variety of HUD programs and projects provide such housing; however, this housing often is not the typical "house" structure. HIV/AIDS housing includes

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

short and long-term rental assistance, live-in medical facilities, and housing sites developed exclusively for people living with AIDS.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

NA-50 Non-Housing Community Development Needs – 91.215 (f)

Describe the jurisdiction's need for Public Facilities

HUD Community Planning and Development funds (CDBG, HOME, and ESG) can be used for a variety of supportive services and community development activities. These include economic development; public and infrastructure improvements; community facilities; and community services.

Moreno Valley has a wide range of community development issues, particularly in older neighborhoods where the housing stock, public improvements and community facilities are deteriorating, and businesses are declining.

Many of the CDBG and HOME programs and strategies are centered in the CDBG Target Areas. Infrastructure improvements are needed in the Target Areas which include some of the oldest areas in the city. To improve public safety and facilitate pedestrian traffic, the city plans to continue the development of public facilities within the CDBG Target Areas utilizing a combination of CDBG and city General Funds to improve neighborhoods and increase quality of life for Moreno Valley residents.

How were these needs determined?

The Public Facility needs of the city were determined through a review of the city's most recent Capital Improvements Plan and through consultation with key stakeholders and public meetings. A summary of the consultation process can be found in the Consultation section at the beginning of the Consolidated Plan.

The noted needs are identified in the City of Moreno Valley *Adopted Capital Improvement Plan: Fiscal Years 2021/22 & 2022/23* and *Momentum MoVal Strategic Plan, August 2016.*

Describe the jurisdiction's need for Public Improvements.

According to the city's most recent Capital Improvement Plan, the city's greatest needs for public improvements are essential updates to public infrastructure such as streets, bridges, and drainage. Specifically identified updates include the State Route (SR) 60/Moreno Beach Drive Interchange, the Citywide Pavement Rehabilitation Project, Sunnymead-Flaming Arrow Drive Storm Drain, South Laselle Street Safety Corridor, and more. The city plans to use both CDBG funds and city general funds to make these and more essential public infrastructure improvements to improve quality of life for residents.

How were these needs determined?

The Public Improvements needs of the city were determined through a review of the city's most recent Capital Improvements Plan, the city's 2016 Strategic Plan, and through consultation with key stakeholders and public meetings. A summary of this process can be found in the Consultation section at the beginning of the Consolidated Plan.

The noted needs are identified in City of Moreno Valley, *Adopted Capital Improvement Plan: Fiscal Years 2021/22 & 2022/23* and *Momentum MoVal Strategic Plan, August 2016.*

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe the jurisdiction's need for Public Services:

The highest priority public service needs are listed below:

- Basic Needs Related to Social Services Programs (such as but not limited to emergency food, shelter (homelessness), and utility assistance)
- Community Public Safety Programs
- Programs Offering Low-Cost Transportation
- Employment Services/Programs and Job Skills Training
- Free/Low-Cost Programs for School-Aged Youth
- Fair Housing

How were these needs determined?

The Public Services needs of the city were determined through consultation with key stakeholders and public meetings. A summary of this process can be found in the Consultation section at the beginning of the Consolidated Plan.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Housing Market Analysis

MA-05 Overview

Housing Market Analysis Overview

The Market Analysis provides insight into what types of housing are needed and who needs them. This provides complementary data to the Needs Assessment. The information gathered and analyzed here helps set the priorities for both the Action Plan and Strategic Plan. It is necessary to understand how things have changed and how they stand now to make wise decisions about how to use resources in the future.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-10 Number of Housing Units – 91.210(a)&(b)(2)

Introduction

The following section looks at the size of the city's housing stock. In addition to the number of units present, it looks at the type of housing units and where they are located. It also includes a comparison of renters and owner-occupied households.

All residential properties by number of units

Property Type	Number	%
1-unit, detached structure	43,507	78%
1-unit, attached structure	1,027	2%
2-4 units	2,098	4%
5-19 units	5,402	10%
20 or more units	2,343	4%
Mobile Home, Boat, RV, Van, etc.	1,155	2%
Total	**55,532**	**100%**

Table 26 – Residential Properties by Unit Number

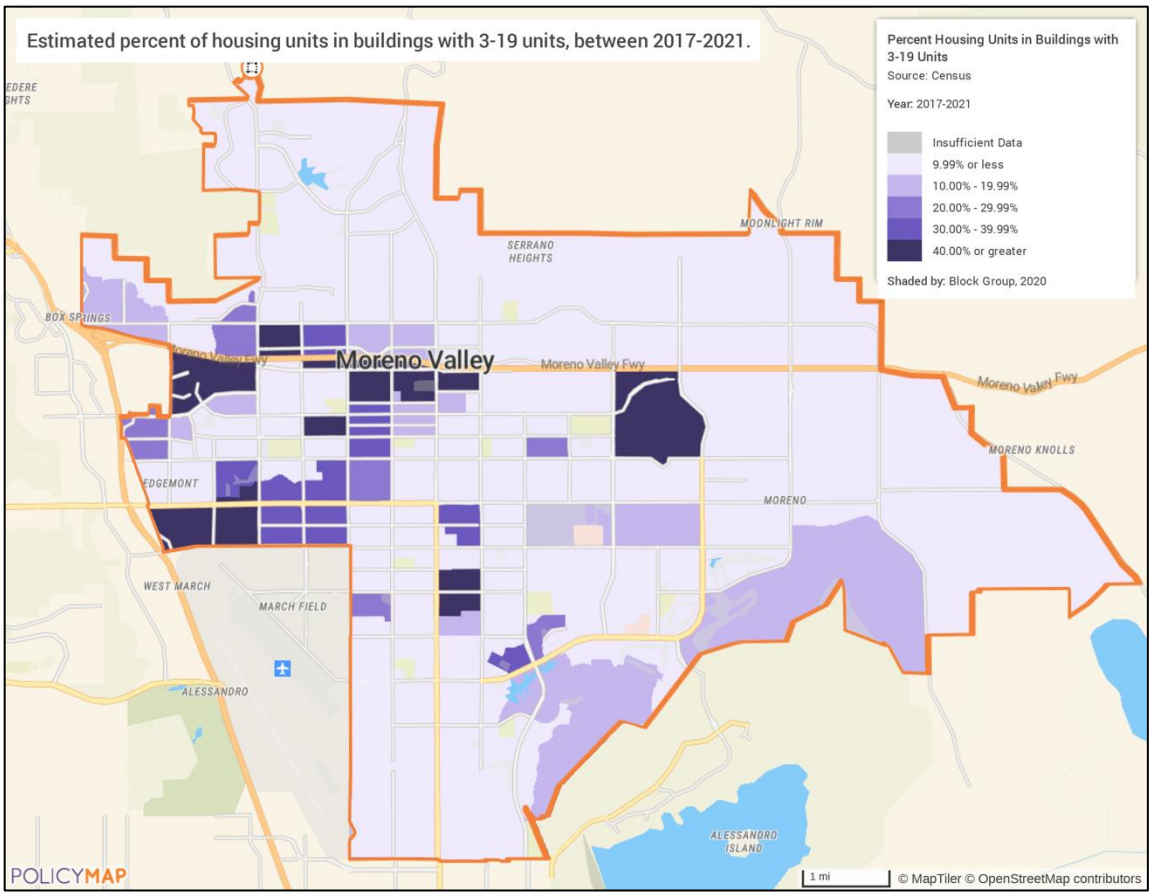
Data Source: 2017-2021 ACS

The table above breaks down the city's housing stock by the number of units in each structure and by structure type. Traditional single-family, detached homes are most prominent, accounting for 78% of all housing units in the city. The next most common category of residential structure is mid-sized multifamily developments with 5-19 units, accounting for 10% of units.

Multifamily Development Distribution

The maps below display the distribution of small, medium, and large multifamily developments in the jurisdiction. Small multifamily units have between 3 and 19 units in each development. These developments are primarily concentrated in the downtown area on the west side of the city. These tracts that are highly concentrated with small developments represent over 40% of the housing stock.

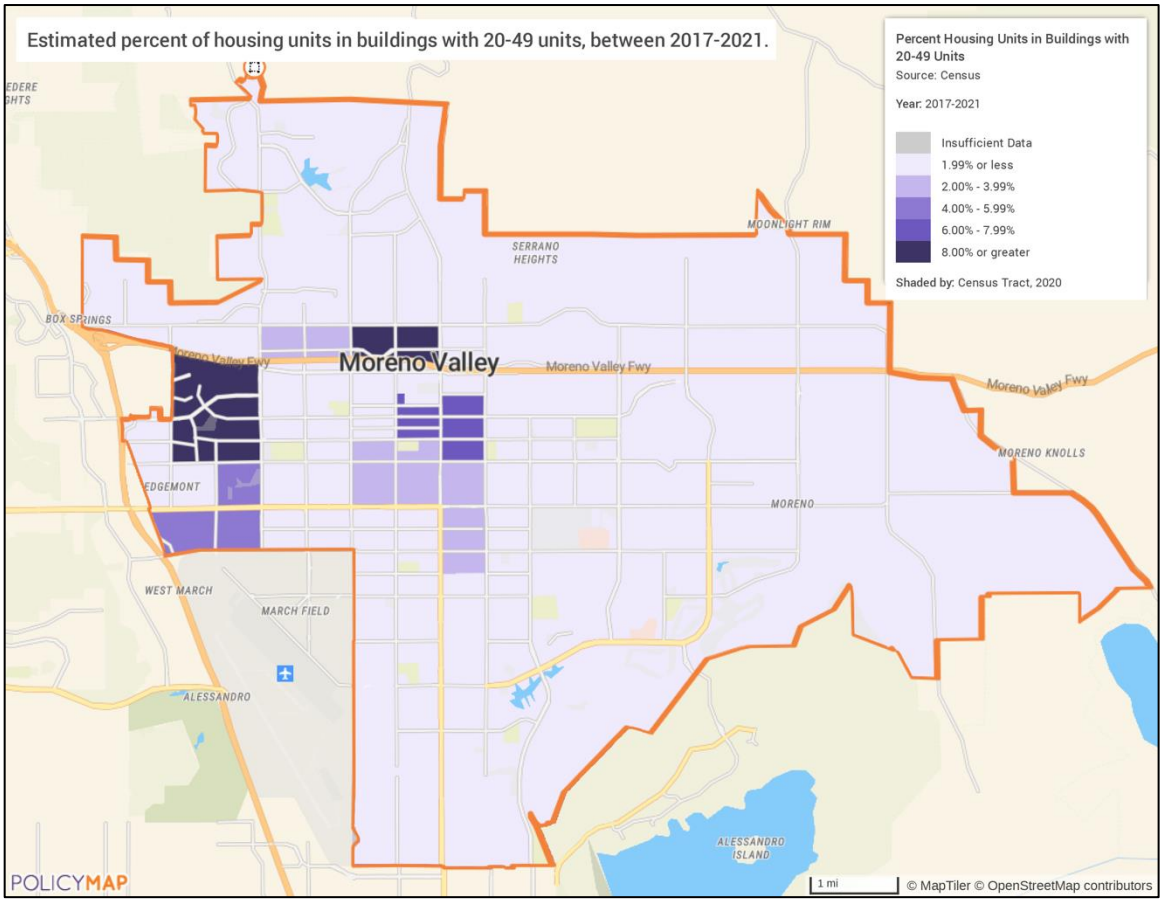
Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

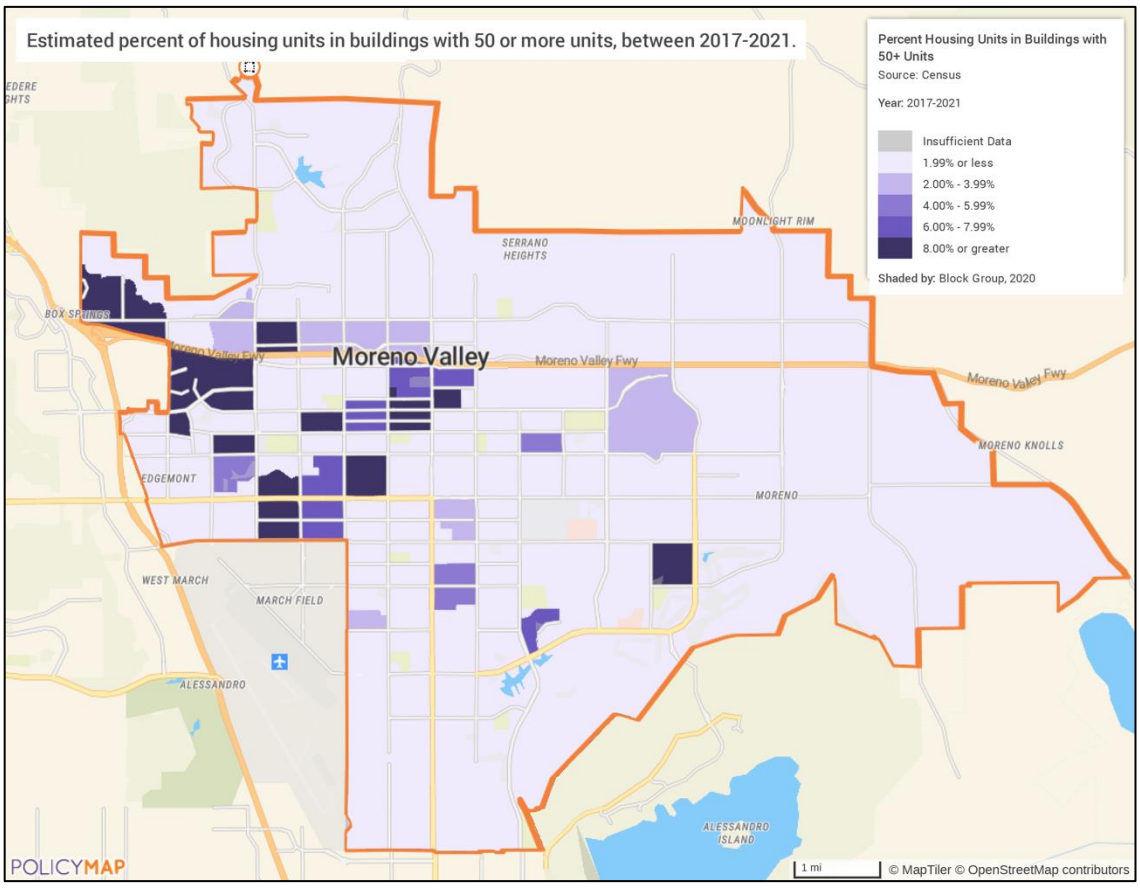
Medium multifamily developments have between 20 and 49 units per development. Like small multifamily developments, medium developments are found primarily on the western side of the city, but they are significantly less common. There are virtually no units in medium structures on the east side of the city.



Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Large multifamily developments are buildings with 50 or more units and have a similar distribution pattern as medium and small developments. However, they appear to be more common than medium multifamily structures, which include units outside of the more urbanized area.



Source: ACS 2017-2021 via PolicyMap

Unit Size by Tenure

	Owners		Renters	
	Number	**%**	**Number**	**%**
No bedroom	182	1%	339	2%
1 bedroom	82	0%	2,457	12%
2 bedrooms	2,874	9%	6,247	31%
3 or more bedrooms	29,839	90%	11,115	55%
Total	***32,977***	***100%***	***20,158***	***100%***

Table 27 – Unit Size by Tenure

Data Source: 2017-2021 ACS

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

The size of housing units is generally linked to whether it is owner-occupied, or renter occupied. Owner-occupied units tend to be larger than rental units. Less than 2% of owner-occupied units have one bedroom or less, while 14% of renter-occupied units are that size. Conversely, about 90 % of owner-occupied units have three bedrooms or more, while only 55% of rental units are this large.

Describe the number and targeting (income level/type of family served) of units assisted with federal, state, and local programs.

The city has identified low-income households as being in need of support. They plan to fund an owner-occupied housing rehabilitation program for low-income residents. The goal of this program is to ensure secure housing for all extremely low-income families.

The city currently has over 1,200 affordable developments that are targeted toward low- and moderate-income households, including Housing Choice Vouchers, multifamily developments, and LIHTC Developments. The city has partnered with multiple developers to invest in construction and rehabilitation of affordable units to ensure that LMI households have adequate housing.

Additionally, the city ran an emergency rental assistance program called MoVal Rental Rescue. This program targeted low- and extremely-low-income households who were at risk of eviction and homelessness by providing rental assistance for arrears and three months of forward rent. The intention was to keep households stably housed.

Provide an assessment of units expected to be lost from the affordable housing inventory for any reason, such as expiration of Section 8 contracts.

According to the HUD Multifamily Assistance and Section 8 Database, there are three developments with contracts in the city. Of these developments, two have expiring contracts in the next five years. These developments account for 92 units of affordable housing.

According to the city's 2021 - 2029 Housing Element, Moreno Valley does not have units at risk of conversion within the next ten years. However, the affordability covenants of the 25 units in two rehabilitated developments (The Mediterranean at Towngate and Walker Terrace) are set to expire within five to ten years. The city plans to enact a program to purchase affordability covenants on existing multifamily units in partnership with a local agency to maintain the city's affordable housing inventory.

Does the availability of housing units meet the needs of the population?

While the availability of housing meets a variety of needs in terms of size of units, there continues to be increased need for more affordable units. As mentioned in the Needs Assessment, cost burden is the most common housing problem for residents of the city, affecting both renters and homeowners. Residents cannot find housing units that are the size and price that meet their needs. Renters are particularly likely to be cost burdened. Overall, there is a need for increased supply of affordable rental and owner-occupied housing.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe the need for specific types of housing.

The city has a very limited supply of smaller owner-occupied units with fewer than two bedrooms. Smaller units tend to be more affordable and attractive to new homeowners or retired residents who are looking to downsize. If these units are not available, then residents have no choice but to move outside of the city or live in substandard housing. There is also a lack of small and medium sized rental units, particularly on the east side of city. Small families and individuals who live alone have fewer housing options which may lead to living in substandard housing or being severely cost burdened.

Describe the need for specific types of housing for special needs groups.

The gap in the supply of smaller rental units is particularly challenging for elderly and disabled residents. According to the city's 2020 Analysis of Impediments to Fair Housing Choice (AI), almost one in every four households in Moreno Valley includes a family member with one or more disabilities. Ninety-six percent of disabled residents live in a housing unit that does not meet their accessibility and support needs. While the Housing Authority of the County of Riverside provides Housing Choice Vouchers to disabled residents (including listings of accessible units and supportive services), it can still often be a challenge for disabled residents to find available housing units that meet their needs.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-15 Housing Market Analysis: Cost of Housing - 91.210(a)

Introduction

One of the most important factors in evaluating a community's housing market is the cost of housing and, more importantly, whether the housing is affordable to households who live there or would like to live there. Housing costs correlate to the housing problems in a community. If housing costs are relatively high in comparison to household income, a correspondingly high rate of housing cost burden and overcrowding could result. The following section examines the cost of housing for both homeowners and renters. A review is made of current home values and rents as well as the recent changes in home values and rents. Finally, a closer look is given to the affordability of the existing housing stock for the residents of the jurisdiction.

Cost of Housing

	Base Year: 2009	Most Recent Year: 2017	% Change
Median Home Value	194,700	353,400	81.5%
Median Contract Rent	1,128	1,510	33.9%

Table 28 – Cost of Housing

Data Source: 2008-2012 ACS, 2017-2021 ACS

Rent Paid	Number	%
Less than $500	406	2%
$500-999	1,645	8%
$1,000-1,499	4,273	21%
$1,500-1,999	8,552	43%
$2,000 or more	5,032	25%
Total	***19,908***	***100%***

Table 29 - Rent Paid

Data Source: 2017-2021 ACS

Housing Costs

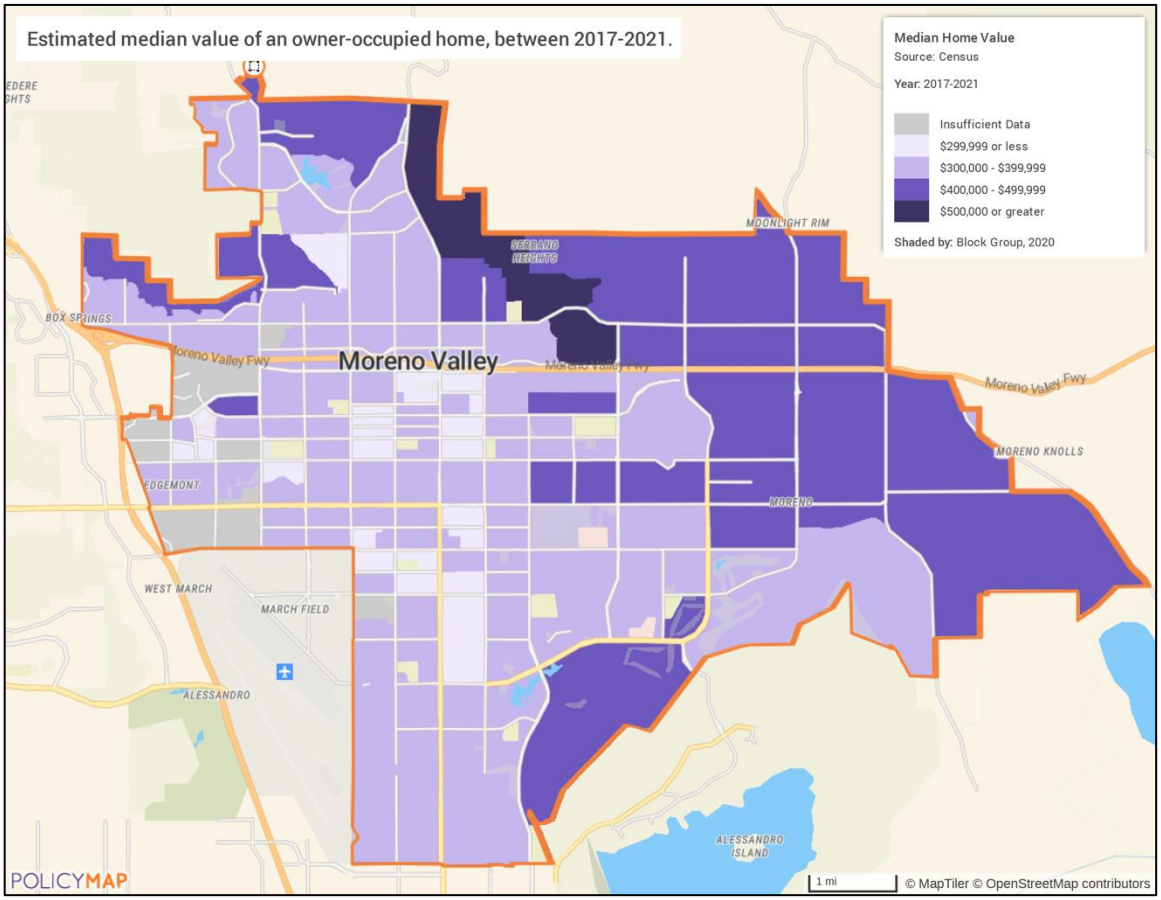
Since 2010, the median home value has increased by 81.5% and rent has increased by 33.9% in nominal dollars. When housing costs from 2010 are compared to 2021 using inflation adjusted dollars (real dollars), the analysis changes slightly. The median home value increased by 33.5% instead of 81.5% and median contract rent increased by 11% instead of 33.9%. As noted in NA-10, the median income in the city grew by 23% during this period. That means that rental units have generally become more affordable for a household with median income, but home ownership continues to be more difficult.

Table *Rent Paid* breaks down the number of households and the amount they are paying in rent. Approximately 43% of renters are paying $1,500 to $1,999, making this the largest price cohort. The

smallest group is households that pay less than $500 per month (2%). Later in this section rental rates will be looked at more closely.

Home Value

The map below shows the median home value by block group throughout the city. Higher home values are primarily found in the eastern and northern portions of the city. Earlier in the plan it was noted that these areas had low concentration of multiunit developments. Considering standard urban growth patterns, it is not unexpected that the high value areas include newer and larger single-family homes.

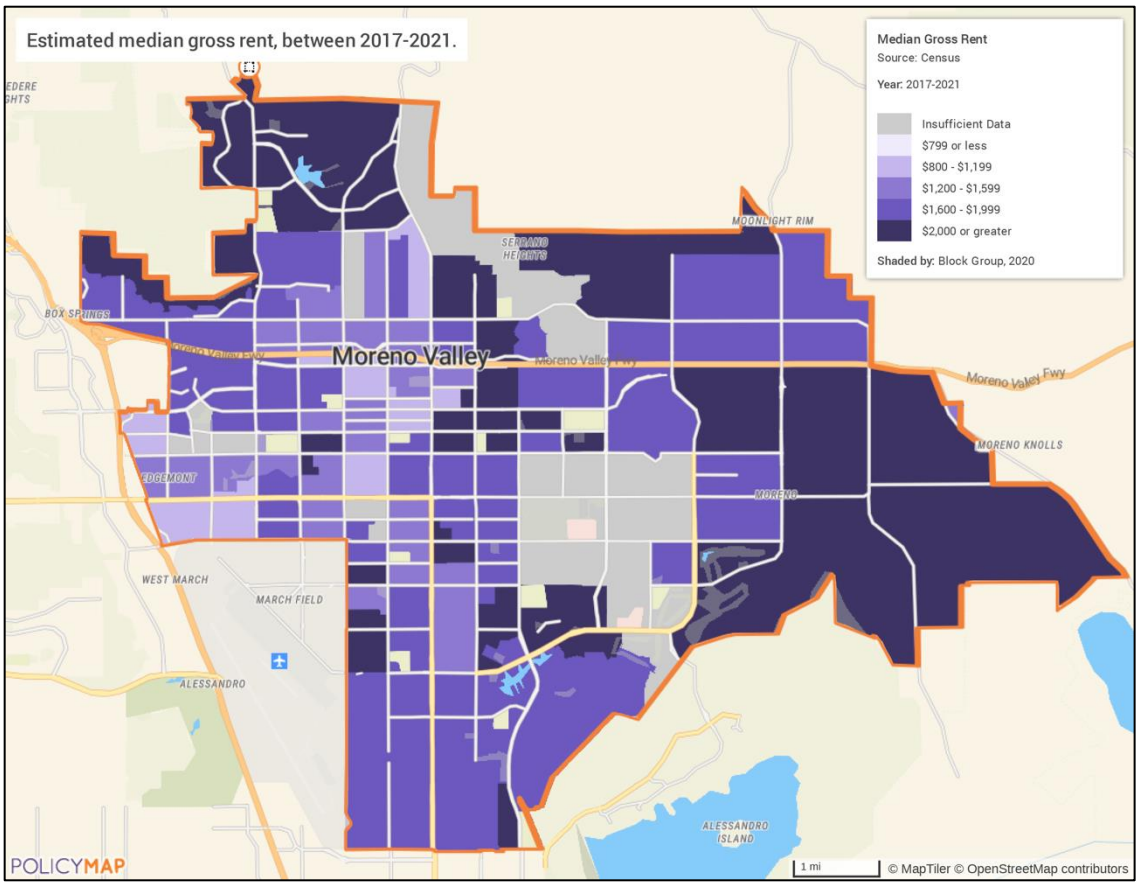


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Median Rent

The map below displays the median rent by block group, and a distribution that is similar to those of home values. There is no clear area with a concentration of high rent census tracts, though the city center appears to have generally lower rents.



Source: ACS 2017-2021 via PolicyMap

Housing Affordability

% Units affordable to Households earning	Renter	Owner
30% HAMFI	465	No Data
50% HAMFI	1,140	520
80% HAMFI	6,165	3,445
100% HAMFI	No Data	7,079
Total	***7,770***	***11,044***

Table 30 – Housing Affordability

Data Source: 2013-2017 CHAS

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Supplemental Data for Housing Affordability below:

	Owner	Estimate	Renter	Estimate
Less than $20,000	1,887	6%	2,067	10%
$20,000 to $34,999	1,895	6%	2,280	11%
$35,000 to $49,999	3,185	10%	2,858	14%
$50,000 to $74,999	5,785	17%	4,905	23%
$75,000 or more	20,217	61%	8,321	40%
Total	33,152	100%	20,952	100%
Zero, negative or no cash (for renters), not computed	183	--	521	--

Table 33 - Household Income by Tenure

Data Source: 2015-2019 ACS (B25106)

Monthly Rent

Monthly Rent ($)	Efficiency (no bedroom)	1 Bedroom	2 Bedroom	3 Bedroom	4 Bedroom
Fair Market Rent	$955	$1,106	$1,390	$1,917	$2,369
High HOME Rent	$879	$943	$1,134	$1,302	$1,433
Low HOME Rent	$691	$740	$888	$1,027	$1,146

Table 31 – Monthly Rent

Data Source: HUD 2021 FMR and HOME Rents

HOME Rents Limits and Fair Market Rents (FMR)

The tables above compare the 2021 Fair Market Rents (FMR) to the 2021 HOME program rent limits for the Riverside-San Bernardino-Ontario MSA, which includes Moreno Valley. FMRs are set by HUD and used to determine payment standard amounts for HUD Programs. HUD annually estimates FMRs for the Office of Management and Budget (OMB) defined metropolitan areas, some HUD defined subdivisions of OMB metropolitan areas, and each nonmetropolitan county. HOME Rent Limits are based on the FMRs published by HUD. HOME Rent Limits are the maximum amount that may be charged for rent in HOME-assisted rental units and are applicable to new HOME leases.

Is there sufficient housing for households at all income levels?

According to 2017-2021 ACS data, the vacancy rate of Moreno Valley is 4.3%. This vacancy rate is significantly lower than the national average of 11.2%. Additional housing stock is needed for all income levels. Low- and moderate-income households are especially in need of additional affordable housing. As rent and home values increase more quickly than incomes, housing costs exceed what is affordable to many of these households.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

How is affordability of housing likely to change considering changes to home values and/or rents?

It is difficult to project exactly how housing affordability will change, but it is likely that the affordability of housing will continue to decrease. As home values increase, the rental market will become more competitive due to less households having the ability to purchase a home. The increased competition will continue to increase rental prices. In addition to this, the low vacancy rates and growing population will contribute to the competition and rising prices; low- and moderate-income households will likely have fewer affordable options.

How do HOME rents / Fair Market Rent compare to Area Median Rent? How might this impact your strategy to produce or preserve affordable housing?

The area median rent is $1,510, which is in between the FMR for a two bedroom and a three bedroom. The median rent exceeds both Low and High HOME Rents for all bedroom sizes. FMR significantly increases for three- and four-bedroom sizes. The city will take these items into consideration when determining the appropriate size and pricing for the development of affordable units. Subsidies will likely be necessary to produce housing affordable to extremely low- and low-income households. HOME funds often need to be combined with other state and federal resources to facilitate the production of affordable rental housing.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-20 Housing Market Analysis: Condition of Housing – 91.210(a)

Introduction

The tables and maps in this section provide details on the condition of housing units throughout the region by looking at factors such as age, vacancy, and the prevalence of housing problems.

As defined by HUD, the four housing problems are:

1) a home which lacks complete or adequate kitchen facilities
2) a home which lacks complete or adequate plumbing facilities
3) a home which is overcrowded (having more than one person per room)
4) a household that is cost burdened (paying 30% or more of their income towards housing costs)

It is important to recognize that safe and secure housing is more than just an available physical space. The quality of the space and its ability to meet the needs of the residents is vital to housing security.

Definitions

For the purposes of this plan, units are in "standard condition" when the unit complies with the local building code, and the California Building Code, which is based on the International Building Code.

The definition of substandard housing is a housing unit with one or more serious code violations. For the purposes of this analysis the lack of a complete plumbing or a complete kitchen will also serve as an indicator of substandard housing.

Units are in "substandard condition but suitable for rehabilitation" when the unit is out of compliance with one or more code violations, and it is both financially and structurally feasible to rehabilitate the unit.

Condition of Units

Condition of Units	Owner-Occupied		Renter-Occupied	
	Number	%	Number	%
With one selected Condition	11,456	35%	11,233	56%
With two selected Conditions	827	3%	2,080	10%
With three selected Conditions	10	0%	24	0%
With four selected Conditions	0	0%	0	0%
No selected Conditions	20,684	63%	6,821	34%
Total	***32,977***	***100%***	***20,158***	***100%***

Table 32 - Condition of Units

Data Source: 2013-2017 ACS

Housing Conditions

The table above details the number of owner and renter households that have at least one housing condition. Thirty-five percent of all owner-occupied housing units face at least one housing condition,

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

while 56% of all renters have at least one housing condition. Generally, there are relatively few households with multiple housing problems and when compared to the affordability statistics provided earlier in the plan, the overwhelming majority of housing problems are housing cost burden. However, it should be noted that approximately 10% of renters have two housing problems.

Year Unit Built

Year Unit Built	Owner-Occupied		Renter-Occupied	
	Number	%	Number	%
2000 or later	7,855	24%	5507	27%
1980-1999	19,396	59%	9,677	48%
1950-1979	5,305	16%	4,294	21%
Before 1950	421	1%	680	3%
Total	***32,977***	***100%***	***20158***	***100%***

Table 33 – Year Unit Built

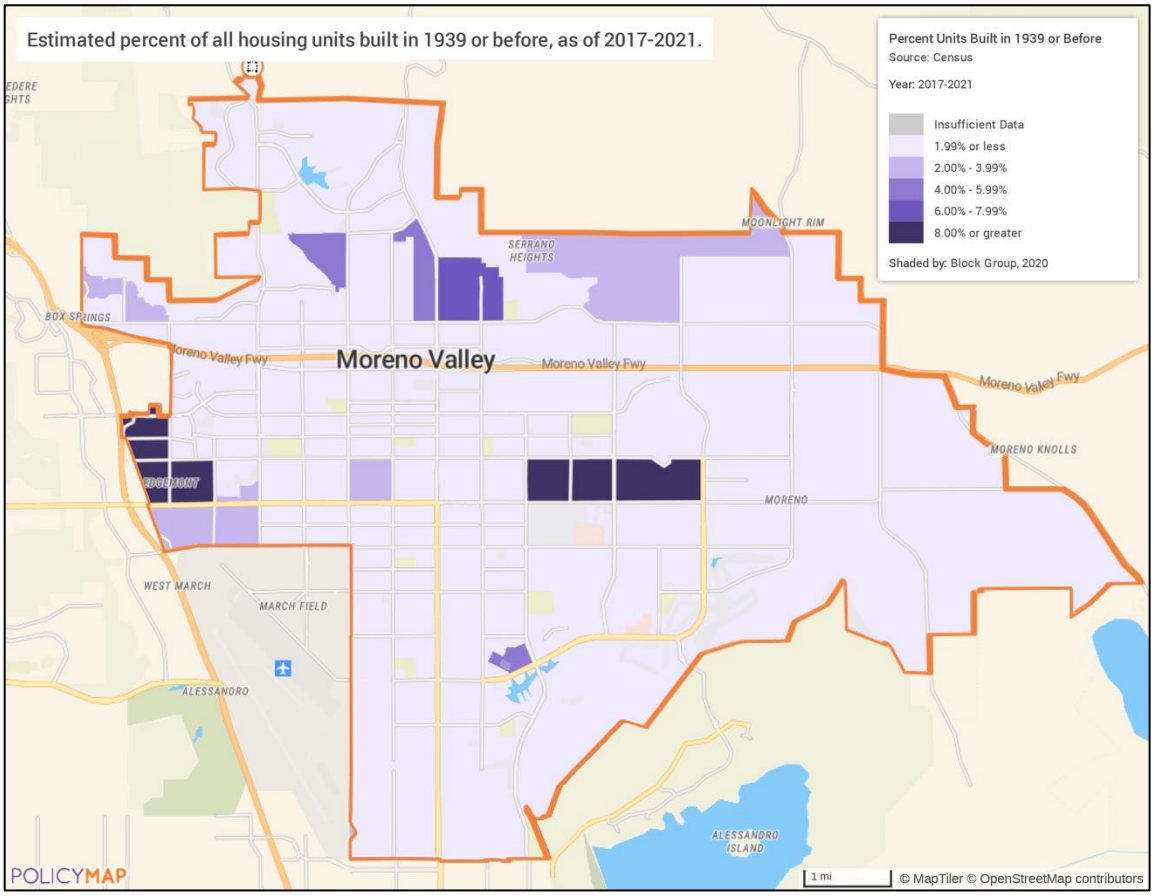
Data Source: 2017-2021 CHAS

In Moreno Valley, the housing stock is relatively new. Approximately 17% of owner-occupied units and 24% of rental units were built prior to 1980. These homes have a risk of lead-based paint and may require additional support to ensure a safe living environment, particularly for children. This amounts to over 10,000 units total, most of which are owner-occupied.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Age of Housing

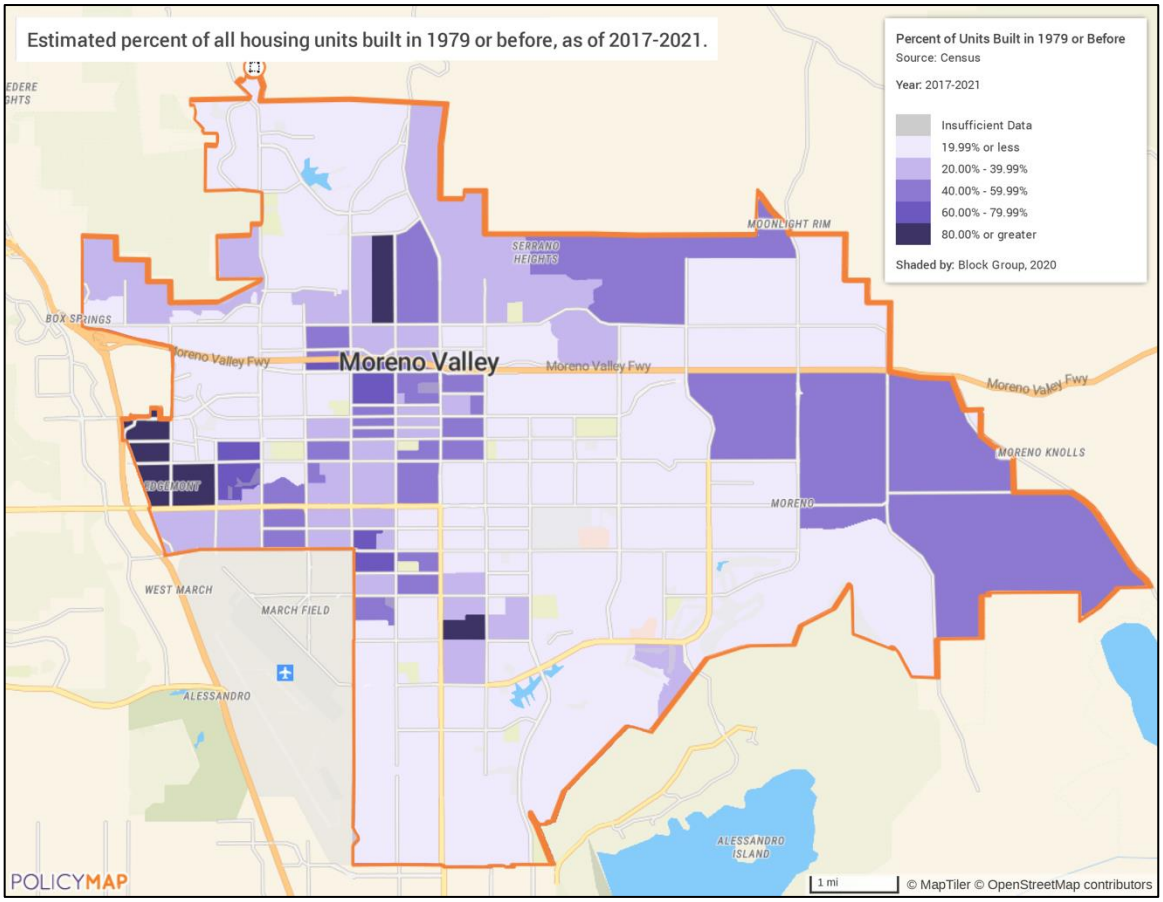
The maps below depict the prevalence of older housing units in the jurisdiction. The first map identifies the percentage of all housing units built prior to 1940. As noted above, the housing stock is relatively new in the area. There are two areas that stand out with a relatively older housing stock. The first is west of Elsworth Street near I-215 between Alessandro Blvd and Eucalyptus Avenue. The second area is towards the east between Alessandro Blvd to the south, Cottonwood Avenue to the north, Moreno Beach Drive to the east and Lasselle Street to the west.



Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

In the following map the distribution of homes built prior to 1980 is shown. Areas in the west and northern portion of the city have tracts with a relatively large number of units built prior to 1980, sometimes over 80%. Due to the age of the units many units in those tracts have a risk of lead-based paint hazard.



Source: ACS 2017-2021 via PolicyMap

Risk of Lead-Based Paint Hazard

Risk of Lead-Based Paint Hazard	Owner-Occupied		Renter-Occupied	
	Number	%	Number	%
Total Number of Units Built Before 1980	5,070	16%	4,595	23%
Housing Units build before 1980 with children present	10,905	35%	5,945	30%

Table 34 – Risk of Lead-Based Paint

Data Source: 2013-2017 ACS (Total Units) 2013-2017 CHAS (Units with Children present)

Lead-Based Paint Hazard

As mentioned previously, any housing unit built prior to 1980 may contain lead-based paint in portions of the home. The most common locations are window and door frames, walls, and ceilings, and in some

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

cases throughout the entire home. Thus, it is generally accepted that these homes at least have a risk of lead-based paint hazards and should be tested in accordance with HUD standards. According to the most recent CHAS data, there are approximately 16,850 units with both a lead-based paint hazard and children present.

Vacant Units

	Suitable for Rehabilitation	Not Suitable for Rehabilitation	Total
Vacant Units	2,397	0	2,397
Abandoned Vacant Units	0	0	0
REO Properties	0	0	0
Abandoned REO Properties	0	0	0

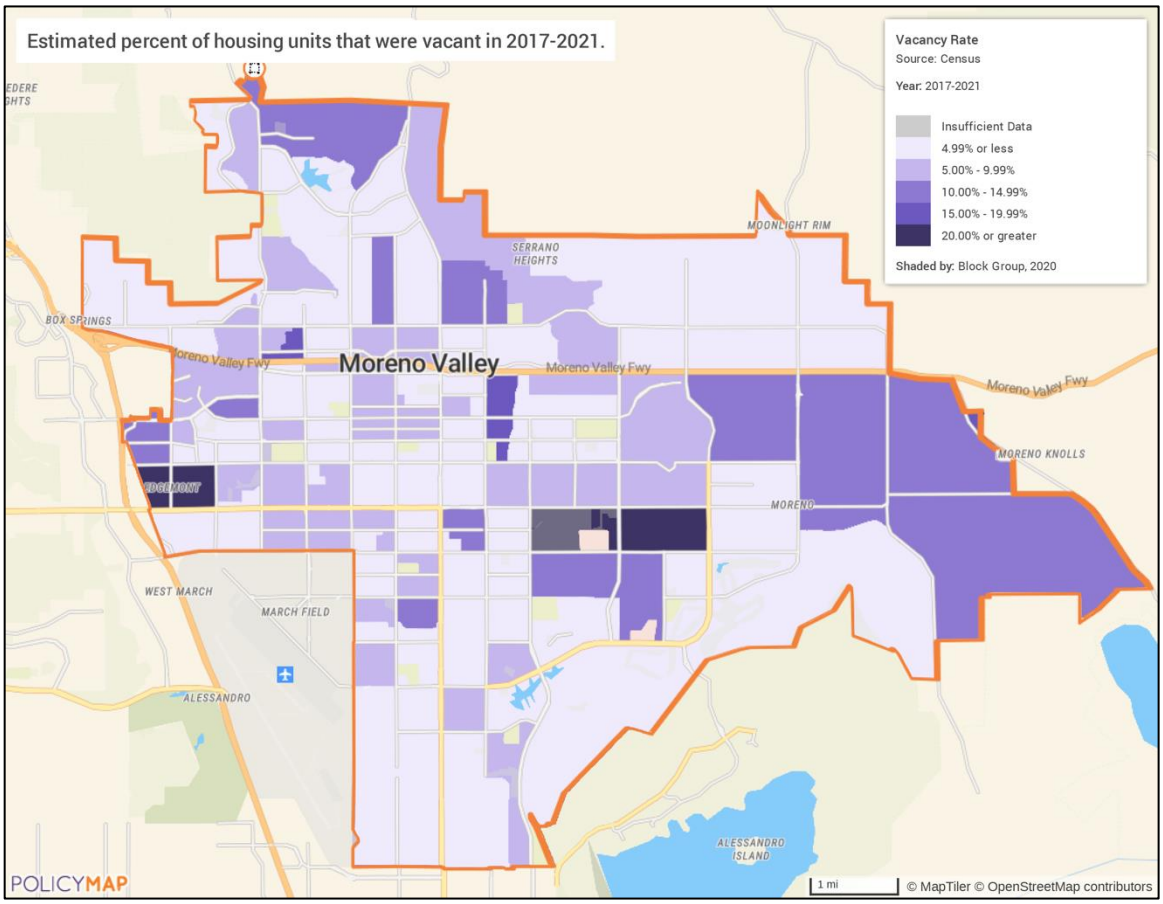
Table 35 - Vacant Units

Alternate Data Source Name: 2017-2021 ACS
Data Source Comments: Moreno Valley does not have data for specific types of vacant units in the city, and ACS data only reports on the total number of vacant units. Data does not distinguish between suitable or nor suitable for rehab or if they were abandoned, Real Estate Owned (REO) properties or abandoned REO properties

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Vacancy Rate

There are currently nearly 2,400 vacant units in the area that are suitable for rehabilitation. These units provide an opportunity to create affordable housing units for LMI households. However, it is important to note that HUD considers a unit vacant for several reasons, including units that are used seasonally and not available for occupancy. There are approximately 400 units vacant due to seasonal use and another 663 units that were vacant for other reasons and are not available for rent or sale. The following map shows that vacancy rates are not uniform throughout the city. Rates range from less than 5% to over 20%, depending on the neighborhood.



Source: ACS 2017-2021 via PolicyMap

Need for Owner and Rental Rehabilitation

Within the city's jurisdiction there is a continued need for rehabilitation for both homeowners and renters. There are 10,000 homes built prior to 1980 that have a potential lead-based paint hazard. This is a large concern for low-income households that may lack the resources to properly rehabilitate their homes to address the presence of lead-based paint.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Estimated Number of Housing Units Occupied by Low- or Moderate-Income Families with LBP Hazards.

To estimate the number of housing units in the jurisdiction by low- or moderate-income families that may contain lead-based paint hazards, this report assumes that homes by year built are distributed evenly across income categories, as no local data exists to describe otherwise. There are approximately 10,000 units built prior to 1980 and approximately 5,750 have LMI households in them.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

MA-25 Public and Assisted Housing – 91.210(b)

Introduction

The City of Moreno Valley does not have a designated Public Housing Authority. Therefore, the city does not own or manage any housing directly or directly operate any voucher programs. However, the Housing Authority of the County of Riverside (HACR) operates as the public housing authority for all Riverside County. The HACR administers Housing Choice Vouchers and public housing units. Additionally, the city has invested housing funds into the construction and rehabilitation of affordable multi-family rental projects in partnership with developers throughout the city. In return, the project owners provide discounted, below-market rents to income-qualified tenants during the term of their agreements with the city. Units in development priced at a "below market rate" are made affordable to varied incomes ranging from very-low- to moderate- income households (30% -120% AMI). Each project has a specific number of units reserved at below market rates, as well as specific income requirements for the units. The city does not own or manage any housing directly.

Totals Number of Units

	Program Type								
	Certificate	Mod-Rehab	Public Housing	Vouchers					
				Total	Project -based	Tenant -based	Special Purpose Voucher		
							Veterans Affairs Supportive Housing	Family Unification Program	Disabled *
# of units vouchers available	0	77	469	8,681	48	8,633	819	1,759	342
# of accessible units			2						

***includes Non-Elderly Disabled, Mainstream One-Year, Mainstream Five-year, and Nursing Home Transition**

Table 36 – Total Number of Units by Program Type

Data Source: PIC (PIH Information Center)

Describe the supply of public housing developments.

According to the HACR, there are currently 469 public housing units available in the city. The HACR also administers approximately 8,680 Housing Choice Vouchers to Moreno Valley Residents, including 819 veteran's affairs supportive housing (VASH) vouchers, and 1,759 Family Unification Vouchers. Each resource currently has a waiting list of residents in need.

Describe the number and physical condition of public housing units in the jurisdiction, including those that are participating in an approved Public Housing Agency Plan.

There are currently no public housing developments in the City of Moreno Valley.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Public Housing Condition

Public Housing Development	Average Inspection Score
N/A	N/A

Table 37 - Public Housing Condition

Describe the restoration and revitalization needs of public housing units in the jurisdiction.

Not applicable; there are currently no public housing developments in the City of Moreno Valley.

Describe the public housing agency's strategy for improving the living environment of low- and moderate-income families residing in public housing.

The mission of the HACR is "to transform and promote healthy, thriving communities, re-ignite hope and restore human dignity through the creation and preservation of high quality and innovative housing and community development programs which enhance the quality of life and revitalize neighborhoods to foster self-sufficiency." The HACR's strategy for carrying out this mission is through the following goals:

1. Expanding the supply of assisted housing though an increase in vouchers and rehab/construction of affordable units.
2. Improving the quality of assisted housing through HQS inspections and increased customer service.
3. Increasing assisted housing choice through landlord outreach, replacement vouchers, and expansion of the Family Self-Sufficiency Program (FSS).
4. Promoting self-sufficiency within existing programs through FSS, employment programs, and supportive services.
5. Ensuring equal opportunity and affirmatively furthering fair housing.

Discussion.

No further discussion.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-30 Homeless Facilities and Services – 91.210(c)

Introduction

The following section provides a discussion and analysis of homeless facilities and services that are available to those who are in need in the community. The city has approximately 12 year-round emergency shelter beds, 12 transitional housing beds, and 70 Permanent Supportive Housing beds. One of the city's highest priorities for the use of CDBG and ESG funds is to address the emergency shelter and housing needs of homeless persons. The city will continue to fund applications for homeless shelters that serve the Moreno Valley homeless population. In addition to beds, supportive services are an essential part of the service delivery system.

Facilities and Housing Targeted to Homeless Households

	Emergency Shelter Beds		Transitional Housing Beds	Permanent Supportive Housing Beds	
	Year-Round Beds (Current & New)	Voucher / Seasonal / Overflow Beds	Current & New	Current & New	Under Development
Households with Adult(s) and Child(ren)	0	0	12	18	0
Households with Only Adults	12	0	12	52	0
Chronically Homeless Households	0	0	0	29	0
Veterans		12	12	0	0
Unaccompanied Youth	0	0	0	0	0

Table 38 - Facilities and Housing Targeted to Homeless Households

Alternate Data Source Name: 2022 PIT Count

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe mainstream services, such as health, mental health, and employment services to the extent those services are used to complement services targeted to homeless persons.

The Riverside County Housing and Workforce Solutions (HWS) Department facilitates the Continuum of Care (CoC) as the Collaborative Applicant and lead agency. It oversees the community's plan to organize and deliver supportive social services and maintains and establishes partnerships to leverage community stakeholders, agencies, businesses, and non-profit partners.

Many local agencies and organizations offer mainstream services to help close the gaps of homelessness through the local, state, and private funding streams. CoC providers and community stakeholders can leverage federal funding sources in partnership with agencies like the Riverside County University Health System-Behavioral Health, Housing Authority of the County of Riverside (HACR), Veterans Administration, and the DPSS Self Sufficiency programs. Mainstream benefits are made accessible to qualifying clients through the CoC program housing providers, local non-profit organizations, agencies, and educational institutions which collaborate and work on creating accessibility to homeless emergency services for homeless families and individuals.

Other mainstream services available in the city include:

1. CalWORKs: Funds are available to families on public assistance to provide rent and utility payments, which are funded through Temporary Assistance for Needy Families (TANF).

2. Riverside County Workforce Development Center: helps job seekers access employment, education, training, and support services to succeed in the labor market and match employers with the skilled workers they need through the Riverside County Workforce Development Centers.

3. Moreno Valley Employment Resource Center: The city partners with Riverside County to operate the Business & Employment Resource Center that provides job training, placement services, and job search assistance.

4. Riverside County Department of Public Social Services: Provides assistance to individuals and families needing senior services, physical health, behavioral health, dentistry services, and public health.

List and describe services and facilities that meet the needs of homeless persons, particularly chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth.

The Housing First approach adopted by the Continuum of Care (CoC) requires that homeless people are assisted with permanent housing or rapid re-housing as soon as possible. Transitional housing beds have been decreasing in the county and permanent housing is increasing due to reallocations made in the HUD CoC Program Consolidated Application, and the CoC's success in obtaining additional funding for Permanent Supportive Housing.

Both transitional housing programs and emergency shelters focus on decreasing a homeless person's or family's length of time homeless (LOTH) in the shelter by getting them quickly stabilized into permanent

housing and providing support through intensive case management as they transition out of homelessness.

The CoC works with the Economic Development Agency (EDA) and other public funding agencies to integrate the CoC Programs, Emergency Solutions Grant, Social Services to Veteran Families (SSVF), and CDBG funding to increase the number of families with children who are assisted through rapid re-housing. Service providers that serve homeless persons in Moreno Valley are listed below:

Path of Life Ministries offers an emergency shelter program to individuals and families in a housing crisis. The Community Shelter provides 90 beds to men and women, and the Family Shelter provides 46 beds to families with children. Shelter guests are provided with wraparound stabilization services including employment support and housing referrals that foster self-sufficiency and family restoration.

LightHouse Social Service Centers operates a Veterans Transitional Living Program that provides comprehensive transitional living services to male veterans ages 18 years and up, in a drug and alcohol free, peer oriented, supportive environment. Transitional living services can be provided to 12 veterans at any given time.

March Veterans Village, a community dedicated to supporting low-income veterans and their families with affordable housing and supportive services, is conveniently located next to March Air Reserve Base in Riverside County. March Veterans Village consists of 7 apartment buildings that are home to more than 400 veterans and their families, including 138 units of permanent supportive housing.

Operation SafeHouse is a 24-hour emergency shelter whose mission is to serve runaway, homeless, and at-risk youth ages 11 – 17 in Riverside County. Services include up to 3 weeks of emergency shelter, nutritious meals, counseling, attempts at family reunification, on-site education program, aftercare, and a 24-hour toll-free crisis line. The organization also has a Main Street Housing Program that offers a unique program consisting of Transitional Living for homeless young adults in Riverside County between 18-21 years of age. Participants are aided in developing the life skills needed to live independent lives.

Saving Grace Homes Sober Living Transitional Home in Moreno Valley is a Faith based sober living home for men in recovery from alcohol and drug addiction. It provides its residents with a safe, supportive environment, a clean and positive living experience based on sobriety and a new way of living without the use of drugs or alcohol.

Immanuel House Transitional Housing Program is a full-service structured 6-month re-entry program for the lifer and long-term parolee population. The program facility has space for 15 participants with 24-hour staffing. Services provided include one-on-one case management, external resource linkage, family reintegration support, peer-led support groups, social security assistance, ID and driver's license services, appointment help, vocational training services, and job development and referrals.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-35 Special Needs Facilities and Services – 91.210(d)

Introduction

The following section discusses the resources available to the populations identified in NA-45. In the city, a significant effort has been made to ensure that these populations have access to the resources they need. A variety of facilities and services targeting persons with special needs are available in Moreno Valley. In particular, the city works with medical facilities, agencies, and non-profit service providers to efficiently allocate resources. Health specific services such as free or reduced-price clinics, and educational programs provide health access to low-income residents and those without healthcare.

Including the elderly, frail elderly, persons with disabilities (mental, physical, developmental), persons with alcohol or other drug addictions, persons with HIV/AIDS and their families, public housing residents and any other categories the jurisdiction may specify and describe their supportive housing needs.

Elderly and Frail Elderly: The supportive housing needs for this population can vary widely depending on the health and fitness of the individuals. Generally, with aging, disabilities and other health issues become more common. Because of this, supportive housing must include access to health professionals and housing modifications to assist the resident. It is important to help residents stay independent and in their own homes for as long as possible if they prefer that. The city has a Senior Citizens' Advisory Board that assists in identifying and finding support for these needs. Seniors that participated in the 2020-2024 Area Plan on Aging Needs Assessment process for Moreno Valley indicated that their top needs for assistance were meal preparation, transportation, and housework. The city helps fund various nonprofits to help address these needs, including Family Services Association and More Than A Meal. The city also offers health classes for seniors, low-cost lunch, and low-cost transportation and other programs for seniors. There are 220 Senior Living options in the Moreno Valley area, with 15 in the City of Moreno Valley.

HIV/AIDS: Medical and social support is important for residents living with HIV/AIDS. While there have been great advances in the medical treatment of HIV/AIDS, it is still important to provide specialized support. Family and friends must be accessible and medical facilities should be nearby. However, data in the Needs Assessment shows that there is still an ongoing need in the region for support, to include live-in medical facilities, and housing sites developed exclusively for people living with HIV/AIDS.

Alcohol and/or Drug Addiction: Individuals dealing with addiction often require housing options that will provide a safe and sober place for recovery. A strong network is necessary to maximize the chance they will stay healthy and sober. It is important that these persons have access to health services, support groups, employment assistance, and access to family and friends. There is also a need for sober emergency shelter facilities and emergency staff that is knowledgeable about the best way to support residents with addiction. Additionally, detoxification facilities are necessary when addiction is first recognized.

Mental and Physical Disabilities: Individuals with disabilities encompass a wide range of skill levels and abilities. Therefore, they have many of the same issues as the general population with the added needs

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

that are unique to their situation. Often, individuals with disabilities have a fixed income and limited housing options. Individuals with more independent skills can utilize subsidized housing but individuals that need more support or specialized housing have fewer options. Many individuals continue to reside with parents and families throughout adulthood, which can put additional financial burdens on the family. Natural disasters can be particularly difficult for residents with disabilities. It is important that emergency procedures and resources are available to ensure support, safe sheltering, and evacuation, if necessary. Regardless of the housing situation, a common thread is the need for continuous supportive services that vary based on level of capabilities.

Describe programs for ensuring that persons returning from mental and physical health institutions receive appropriate supportive housing.

As part of the city's involvement with the Continuum of Care, a Discharge Planning Policy was established to ensure that all appropriate local and State government entities that discharge persons from publicly funded institutions or systems of care participate in the Discharge Planning Policy. The Policy strengthens discharge planning with major institutions to limit the number of chronically homeless persons discharged into homelessness and connects the homeless and those persons threatened with homelessness with supportive housing and community-based resources upon discharge. The overall objective of the Discharge Coordination Policy and Practices is to reduce the number of persons being released and discharged into homeless shelters, unsuitable accommodations, or homelessness.

Specify the activities that the jurisdiction plans to undertake during the next year to address the housing and supportive services needs identified in accordance with 91.215(e) with respect to persons who are not homeless but have other special needs.

The city has identified several activities that will be funded in the next year to support persons who are not homeless but have other special needs. Activities to be funded include:
Capital Improvement Activities

- Health, Safety, and Public Welfare Activities
- Homeless/Homeless Prevention Activities
- Housing and Neighborhood Improvement Activities
- Public Service Activities
  - Basic Needs Related to Social Services Programs (such as but not limited to emergency food, shelter (homelessness), and utility assistance)
- Community Public Safety Programs
- Capital Improvement Activities
- Fair Housing Activities

For entitlement/consortia grantees: Specify the activities that the jurisdiction plans to undertake during the next year to address the housing and supportive services needs identified in accordance with 91.215(e) with respect to persons who are not homeless but have other special needs. Link to one-year goals. (91.220(2)).

Not applicable.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-40 Barriers to Affordable Housing – 91.210(e)

Describe any negative effects of public policies on affordable housing and residential investment.

In 2023, the city completed an Analysis of Impediments to Fair Housing Choice (AI). During the production of this analysis the city identified several potential barriers to fair housing and affordable housing. The barriers to affordable housing are listed below. Further details are provided in the city's AI.

- Lack of a Balanced Housing Stock.
- Need for Utilization of Bilingual Housing Materials.
- Rapid Increase in Home Prices and Cost Burdened Households.
- Reduction in Housing Funds.
- High Number of Cost Burdened Renters.

The City does not have growth limits, or policies and ordinances that regulate the number of housing units that can be constructed annually. The City does not have ordinances such as rent control that directly affect the residential investment rate of return. In affordable for-sale and for-rent projects, however, the City does enact controls to maintain affordability. For instance, in HOME-assisted ownership projects the City implements a recapture policy.

Furthermore, tax policy affecting land and other property is governed by California state law. Property taxes are based on a property's assessed value. State law mandates that all property is subject to taxation unless otherwise exempted. In general, properties that are owned and used by educational, charitable, religious, or government organizations may be exempt from certain property taxes. Housing for low-income households owned and operated by a qualifying nonprofit organization is eligible for exemption from property taxes.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-45 Non-Housing Community Development Assets – 91.215 (f)

Introduction

This section provides insight into the economic development landscape of the City of Moreno Valley. The table below details the extent of business sector employment throughout the city. Unemployment, commuting times, and education are also analyzed in this section.

Economic Development Market Analysis

This section provides insight into the non-housing assets within the community, with a focus on economic activity and education levels. These are used to identify areas of concern or sectors to reinforce support.

Business Activity

Business by Sector	Number of Workers	Number of Jobs	Share of Workers %	Share of Jobs %	Jobs less workers %
Agriculture, Mining, Oil & Gas Extraction	573	33	0	0	0
Arts, Entertainment, Accommodations	8,102	4,645	9	11	2
Construction	7,599	664	7	8	1
Education and Health Care Services	18,924	15,278	19	39	20
Finance, Insurance, and Real Estate	3,891	1,077	10	3	-7
Information	1,408	229	5	3	-2
Manufacturing	6,499	1,421	5	1	-4
Other Services	4,377	664	5	3	-2
Professional, Scientific, Management Services	7,327	3,190	14	8	-6
Public Administration	4,624	776	6	10	4
Retail Trade	13,180	5,514	12	12	0
Transportation and Warehousing	11,238	12,537	4	0	-4
Wholesale Trade	3,231	1,051	3	2	-1
Total	90,973	47,079	--	--	--

Table 39 - Business Activity

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Alternate Data Source Name: 2017-2021 ACS (Workers), 2019 LEHD (Jobs)

Data Source Comments: The Business Activity table above compares the number of workers to the number of jobs in the city. At this time, the most recent data set for the number of jobs was 2019 from the Longitudinal Employer-Household Dynamics (LEHD), US Census Bureau. Data from the 2017-2021 ACS 5-Year estimates was used for comparison.

Share of Workers and Jobs

In the above table the prevalence of both workers and jobs by sector is presented. There are nearly twice as many workers than jobs. There are nearly 44,000 more workers in the city. In addition to the discrepancy in raw numbers, there are significant gaps in specific sectors. Overall, there is a 160,000-job discrepancy. The largest gap is in the Retail Trade sector which has nearly 7,700 more workers than jobs. Transportation and Warehousing is the only sector with more jobs than workers.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Labor Force

Total Population in the Civilian Labor Force	99,492
Civilian Employed Population 16 Years and Over	91,490
Unemployment Rate	3.7%
Unemployment Rate for Ages 16-24	18%
Unemployment Rate for Ages 25-65	7%

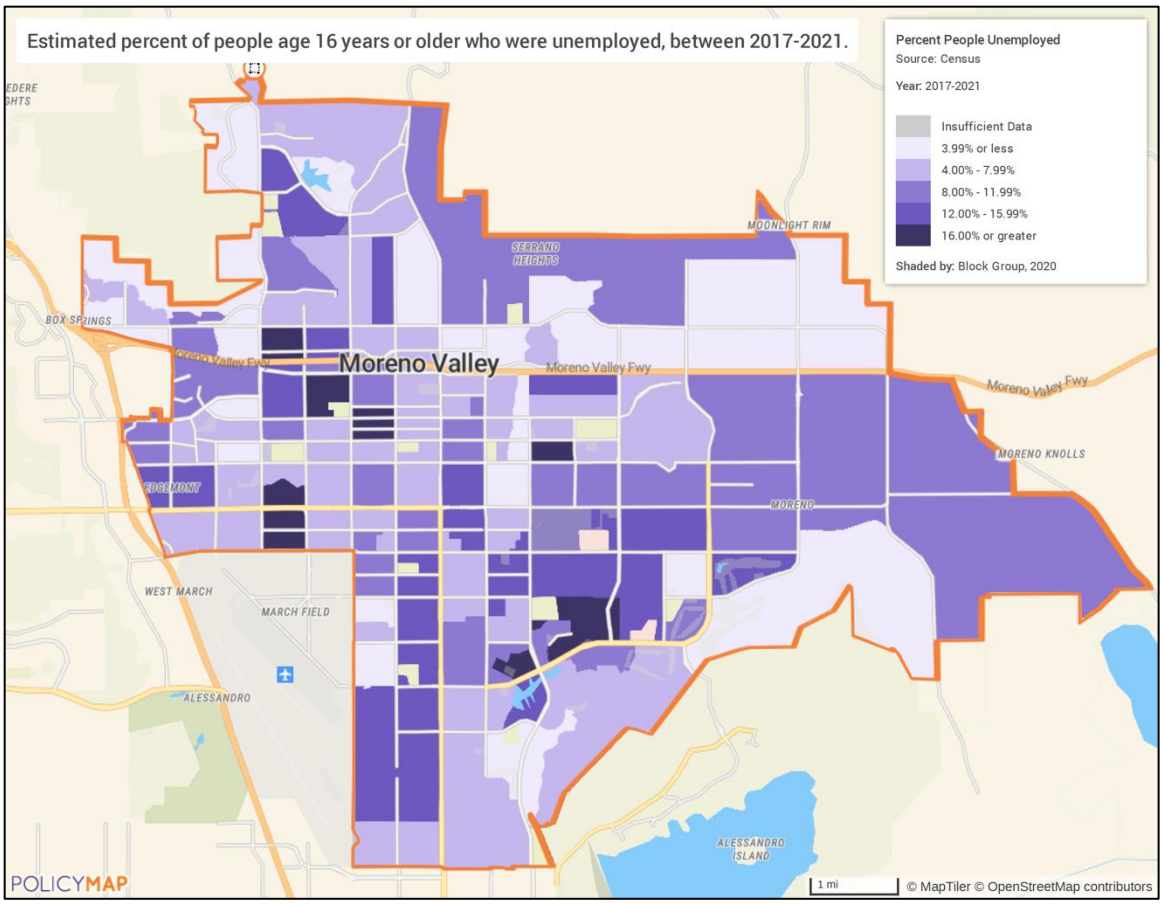
Table 40 - Labor Force

Data Source: 2017-2021 ACS
Data Source Comments: Unemployment Rate data is from the BLS, November 2022. All other labor force data is from the 2017-2021 ACS including unemployment rate by age.

Unemployment

There are two primary sources used to analyze the unemployment rate in the city for this report. They each have pros and cons, but when taken together they can provide a clearer view of unemployment in the city. The first source is the US Census Bureau's American Community Survey 5-Estimates (ACS). In the ACS, unemployment data is only taken annually, and the most recent data is from 2021. It is also an average of the five years included, which does not necessarily provide an accurate view of recent employment trends. However, the ACS data is available at a block group level and can help identify any areas that have disproportionately high unemployment. The most recent unemployment rate is 3.7%, according to ACS. There is a large difference between the unemployment rate for eligible workers under the age of 25 and those between 25 and 65. The following map shows the difference in unemployment rates by block group. There is no clear pattern, but some tracts have an unemployment rate that is triple the rate in other block groups.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Source: ACS 2017-2021 via PolicyMap

The second source is the Bureau of Labor Statistics. This measurement of unemployment is updated monthly and provides insight into trends at the city level. It is not available at the census tract or block group level and therefore provides a look at employment as it relates to time, while the ACS looks at employment as it relates to space.

The tables below show that the unemployment rate in the city has steadily decreased over the last decade except for 2020 due to the impacts of the COVID-19 pandemic. Additionally, according to the monthly unemployment rates during 2022 (most current data at the time of plan development), the overall downward trend of unemployment levels remained steady, highlighting a strong labor market.

2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
12.5	10.7	8.8	7.2	6.4	5.6	4.6	4.4	10.8	8.4	4.4

Table 44 - Table: BLS Unemployment by Year

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
6.4	5.6	4.6	4.2	3.6	4.1	3.9	4.1	3.9	4.0	4.5	3.9

Table 45 - Table: BLS Unemployment by Month, January to December 2022

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Occupations by Sector	Number of People
Management, Business, and Financial	22,617
Farming, Fisheries, and Forestry Occupations	357
Service	17,091
Sales and Office	19,824
Construction, Extraction, Maintenance, and Repair	11,487
Production, Transportation, and Material Moving	20,114

Table 41 – Occupations by Sector

Data Source: 2017-2021 ACS

Occupations by Sector

In the table *Occupations by Sector*, occupations by sector are analyzed. Instead of showing which sectors are most common, as the table at the beginning of this section did, this shows what type of jobs are available in each sector. For example, this table would include a manager of a fast-food restaurant and the manager of a logging company in the same category (Management, Business, and Financial) while in the earlier table they would be in separate categories. In Moreno Valley, the most prominent occupation sector is the Management, Business, and Financial sector. Over 22,500 people are employed in that sector. The second largest sector is Production, Transportation, and Material Moving with 20,114 people and the third largest is Sales and Office with 19,824.

Travel Time

Travel Time	Number	Percentage
< 30 Minutes	37,815	45%
30-59 Minutes	29,598	35%
60 or More Minutes	16,434	20%
Total	***83,846***	***100%***

Table 42 - Travel Time

Data Source: 2017-2021 ACS

All other things being equal, residents would rather live in the same area as their job. Relative to short commutes, long commute times are associated with lower life satisfaction, increased stress, obesity, anxiety, depression, and increased exposure to pollutants. This is particularly true when compared to commuters who use bicycles or walk to work. Less than half of the residents in Moreno Valley commute less than 30 minutes. Most residents commute longer than 30 minutes and 20% commute more than an hour.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Education

Educational Attainment by Employment Status (Population 16 and Older)

Educational Attainment	In Labor Force		
	Civilian Employed	Unemployed	Not in Labor Force
Less than high school graduate	13,535	1,664	7,869
High school graduate (includes equivalency)	22,893	2,610	8,094
Some college or Associate's degree	25,129	1,854	7,655
Bachelor's degree or higher	13,853	1,117	3,152

Table 43 - Educational Attainment by Employment Status

Data Source: 2017-2021 ACS

Educational attainment is one of the best indicators of economic success, both in attaining a job and receiving a higher wage. In Moreno Valley, the unemployment rate for a person without a high school diploma is 11% while the rate for a resident with a bachelor's degree or higher is only 7.5%. The labor participation rate is also higher for those with higher educational attainment. Approximately 34% of residents without a high school diploma are not in the workforce, which is higher than the 17% for those with bachelor's degrees.

Educational Attainment by Age

	Age				
	18–24 yrs.	25–34 yrs.	35–44 yrs.	45–65 yrs.	65+ yrs.
Less than 9th grade	255	736	1,950	7,585	3,971
9th to 12th grade, no diploma	2,276	3,210	3,724	5,278	1,574
High school graduate, GED, or alternative	9,609	12,273	7,924	12,838	3,885
Some college, no degree	8,492	8,876	6,424	10,469	4,169
Associate's degree	974	2,690	2,381	3,489	1,949
Bachelor's degree	1,301	4,718	3,388	4,205	2,575
Graduate or professional degree	87	1,504	1,964	2,235	1,184

Table 44 - Educational Attainment by Age

Data Source: 2017-2021 ACS

There are nearly 15,000 residents that have less than a 9th grade education, the majority of whom are over the age of 45. Over 20% of residents over 65 years old have less than a 9th grade education. Also, there are approximately 16,000 residents with a 9th grade education but without a high school diploma. As noted above, education is closely related to employment, and without a high school diploma or equivalent these residents may struggle to find stable employment and sustainable living wages.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Educational Attainment – Median Earnings in the Past 12 Months

Educational Attainment	Median Earnings in the Past 12 Months
Less than high school graduate	29,300
High school graduate (includes equivalency)	35,194
Some college or Associate's degree	41,325
Bachelor's degree	53,351
Graduate or professional degree	76,397

Table 45 – Median Earnings in the Past 12 Months

Data Source: 2017-2021 ACS

As mentioned earlier in the plan, educational attainment and earnings are linked. The annual wage difference based on education can lead to substantial wealth differences over time. A person who graduates high school and works from the age 18 to 65 will earn approximately $1,377,100 during their working life. A person with a bachelor's degree who works from age 23 to 65 will earn $2,240,742. That is nearly 40% more with fewer years of work. Additionally, this added financial benefit does not consider that most jobs that require a bachelor's degree tend to have benefits like health insurance, and the higher income can lead to investments, purchasing a home instead of renting, and other activities that can increase wealth substantially.

Based on the Business Activity table above, what are the major employment sectors within your jurisdiction?

According to the Business Activity table, the Education and Healthcare sector provides the highest percentage of all workers and jobs in the area. Approximately 19% of workers and 39% of jobs are in that field. Most jobs are in a different sector. The sector with the second largest number of workers is Professional, Scientific, Management Services; and the sector with the second largest number of jobs is Retail Trade.

Describe the workforce and infrastructure needs of the business community.

Among the workforce characteristics local Inland Empire companies are seeking as they add workers are:

- Higher education providing the skills needed by employees (new employees need to recognize that skills and technical abilities are changing rapidly, and workers must continue with training and certifications to stay current).
- Acquire the appropriate technical education and training to fill employer needs.

Among the city's priority objectives for funding are economic development and capital improvement activities. The city staff assess the needs of the communities yearly and include specific activities when developing its Annual Action Plan.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe any major changes that may have an economic impact, such as planned local or regional public or private sector investments or initiatives that have affected or may affect job and business growth opportunities during the planning period. Describe any needs for workforce development, business support or infrastructure these changes may create.

Moreno Valley recently allocated $50 million toward repaving nearly 190 miles of road throughout the city and set aside $5.5 million to strengthen the city's public safety initiatives. The city has welcomed several electric vehicle manufacturers in recent years, bringing job opportunities to its residents. The city's economic incentive efforts have helped create nearly 26,000 local jobs since 2011. The city has plans in the works for the revitalization of the Moreno Valley Mall, the Moreno Valley Town Center, and Aquatic Center, as well as park renovation projects.

How do the skills and education of the current workforce correspond to employment opportunities in the jurisdiction?

As noted earlier in the plan, there is currently a significant disconnect between workers and jobs in the city. There are nearly 44,000 more workers than jobs in the community. Except for the Agriculture sector, every sector requires between 1,000 and 7,700 jobs for workers to stay in the city.

Describe any current workforce training initiatives, including those supported by Workforce Investment Boards, community colleges and other organizations. Describe how these efforts will support the jurisdiction's Consolidated Plan.

The City of Moreno Valley partners with Riverside County to provide a small business resource center for both owners and job seekers. This program is called the Business and Employment Resource Center (BERC). BERC provides several services, including:

- Access to computers and the internet
- Workshops, training, and recruitment events
- Resume assistance
- Resource library
- Hot jobs announcements
- Career assessment software
- Veteran's employment services and resources

Does your jurisdiction participate in a Comprehensive Economic Development Strategy (CEDS)?

Yes

If so, what economic development initiatives are you undertaking that may be coordinated with the Consolidated Plan? If not, describe other local/regional plans or initiatives that impact economic growth.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

The City of Moreno Valley is part of the County of Riverside CEDS. The most recent strategy is the 2019-2024 Five Year Plan. Five goals were identified at the county level, all of which also apply to the City of Moreno Valley.

- Goal 1: Increase access to high-paying jobs.
- Goal 2: Provide a world-class education.
- Goal 3: Provide quality housing.
- Goal 4: Promote and provide culturally rich activities.
- Goal 5: Enhance safe and healthy communities.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-50 Needs and Market Analysis Discussion

Are there areas where households with multiple housing problems are concentrated?

HUD identifies four specific data points that constitute "housing problems". Housing problems include:

1. Housing units that lack complete kitchen facilities.
2. Housing units that lack complete plumbing facilities.
3. Households with more than one person per room (i.e., overcrowding).
4. Cost Burden - monthly housing costs (including utilities) exceeding 30% of monthly income.

Areas of concentration are census tracts that have two or more housing problems that are substantially higher than the city average. For this analysis, “substantially higher” is based on the HUD provided standards set in the Needs Assessment section of the plan. A tract with a housing problem rate of 10% higher than the city average is considered substantially higher. To provide a more nuanced analysis, “cost burden” has been split into renter cost burden and homeowner cost burden.

Citywide Rate

- Overcrowding: 10.5%
- Lack of Complete Plumbing Facilities: 0.2%
- Lack of Complete Kitchen Facilities: 0.4%
- Renter Cost Burden: 62.8%
- Homeowners Cost Burden: 37.9%

Substantial Rate

- Overcrowding: 20.5%
  - No areas of concentration
- Lack of Complete Plumbing Facilities: 10.2%
  - No areas of concentration
- Lack of Complete Kitchen Facilities: 10.4%
  - No areas of concentration
- Renter Cost Burden: 72.8%
  - Census Tract 424.03 – 77.3%
  - Census Tract 424.09 – 75.4%
  - Census Tract 424.10 – 89.2%
  - Census Tract 425.13 – 76.3%
  - Census Tract 425.14 – 80.5%
  - Census Tract 425.19 – 82.2%
  - Census Tract 425.21 – 84.1%
  - Census Tract 425.22 – 80.4%
  - Census Tract 489.01 – 85.2%
- Homeowner Cost Burden: 47.9%

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

- Census Tract 425.10 – 66.0%
- Census Tract 425.11 – 51.6%
- Census Tract 425.14 – 49.1%
- Census Tract 426.22 – 50.4%
- Census Tract 490.01 – 48.1%

Cost burdens create the bulk of housing problems. There are 14 tracts with a concentration of housing cost burden, but no tracts have a concentration of multiple housing problems. Substandard housing does not contribute greatly to housing problems.

Are there any areas in the jurisdiction where racial or ethnic minorities or low-income families are concentrated?

Race/Ethnicity

For the purposes of this analysis, a concentration is any census tract where the racial or ethnic minority group makes up 10% more than the city average.

Citywide Rate

- Asian, non-Hispanic: 5.2%
- Black or African American, non-Hispanic: 17.6%
- Multiracial, non-Hispanic: 2.5%
- Multiracial, Hispanic: 7.0%
- Hispanic, all races: 60.4%

Concentration Rate

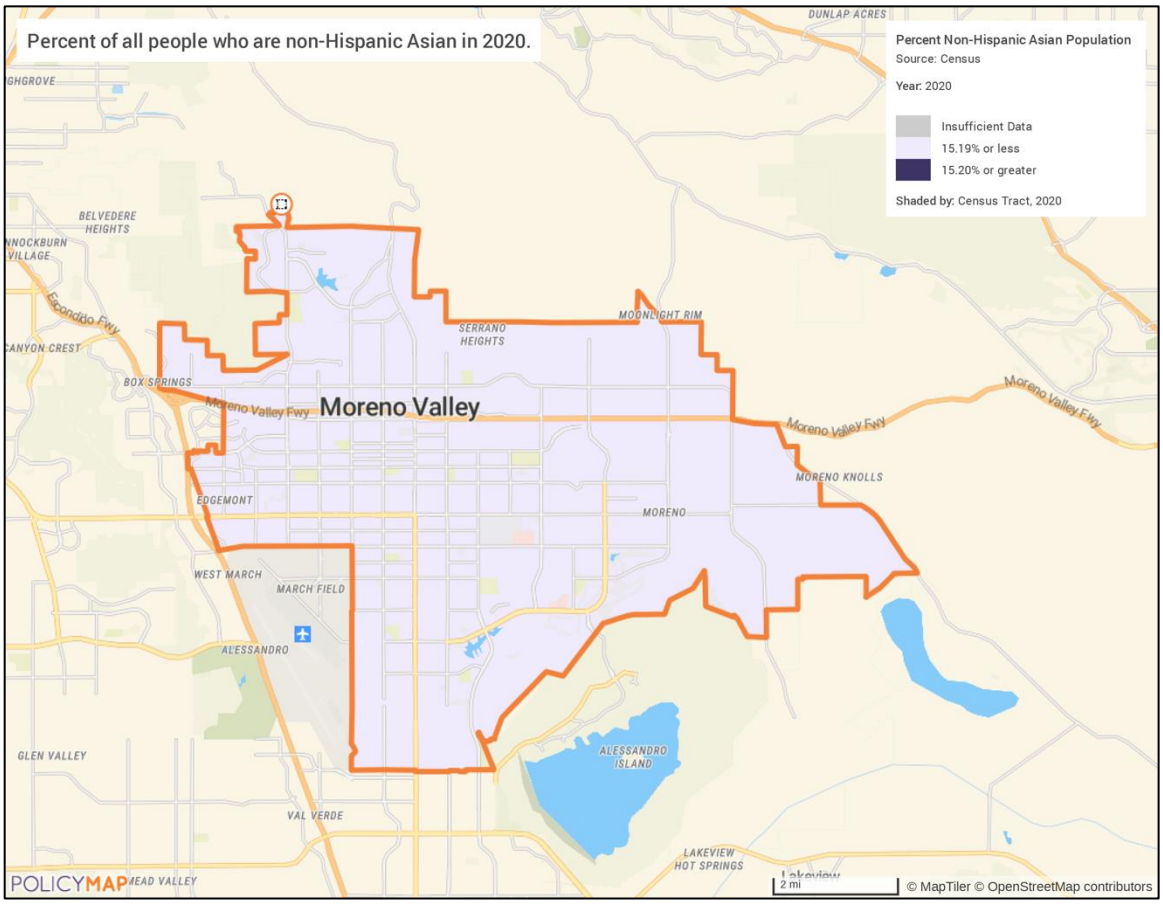
- Asian, non-Hispanic: 15.2%
- Black, non-Hispanic: 27.6%
- Multiracial, non-Hispanic: 12.5%
- Multiracial, Hispanic: 17.0%
- Hispanic, all races: 70.4%

Due to the small size of other racial groups a comparison could not be conducted. Each group had a total population of less than 1%.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Asian, non-Hispanic:

There are no tracts that have a concentration of Asian, non-Hispanic residents.

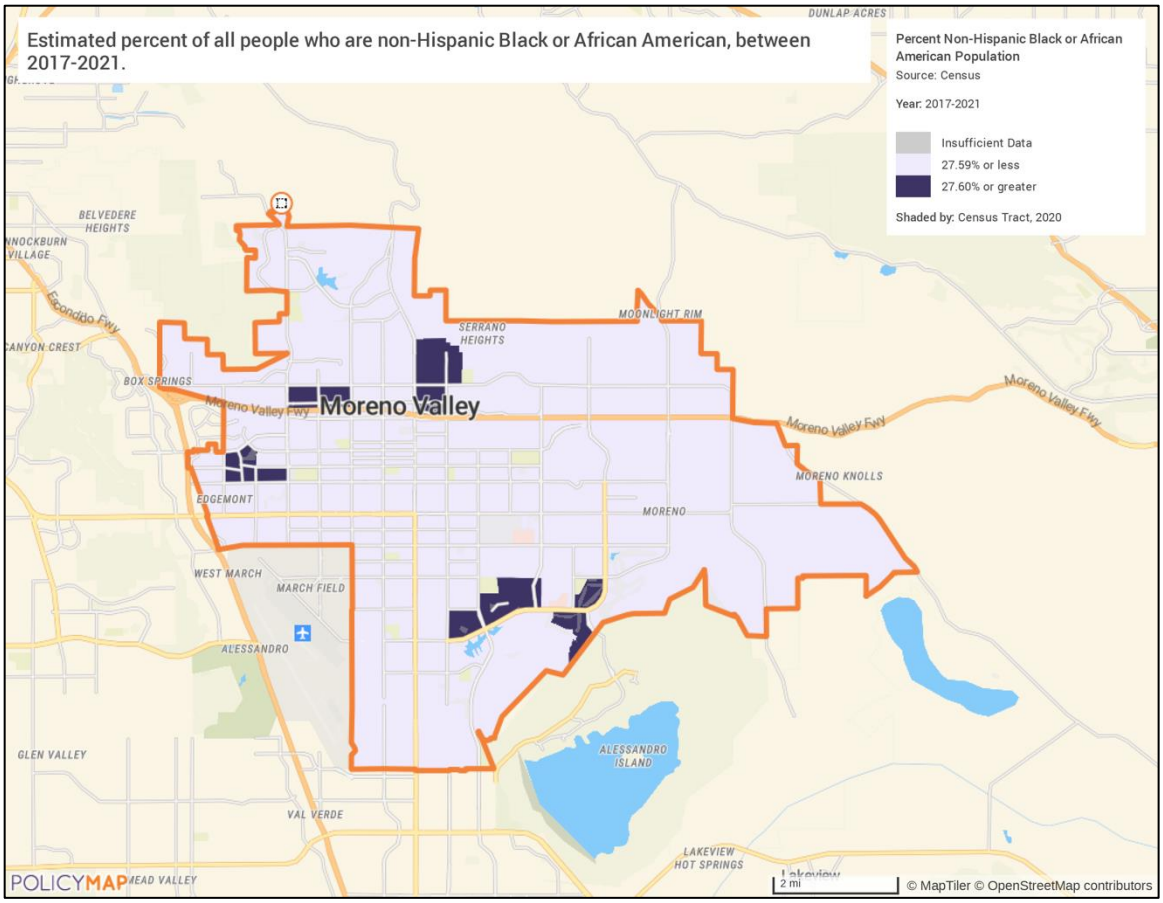


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Black, non-Hispanic

There are multiple tracts that have a concentration of Black, non-Hispanic residents. As the map below shows, there are two general areas with a concentration of this population. One area encompasses multiple tracts on the northwest side of the city and one area is in the southern tip.

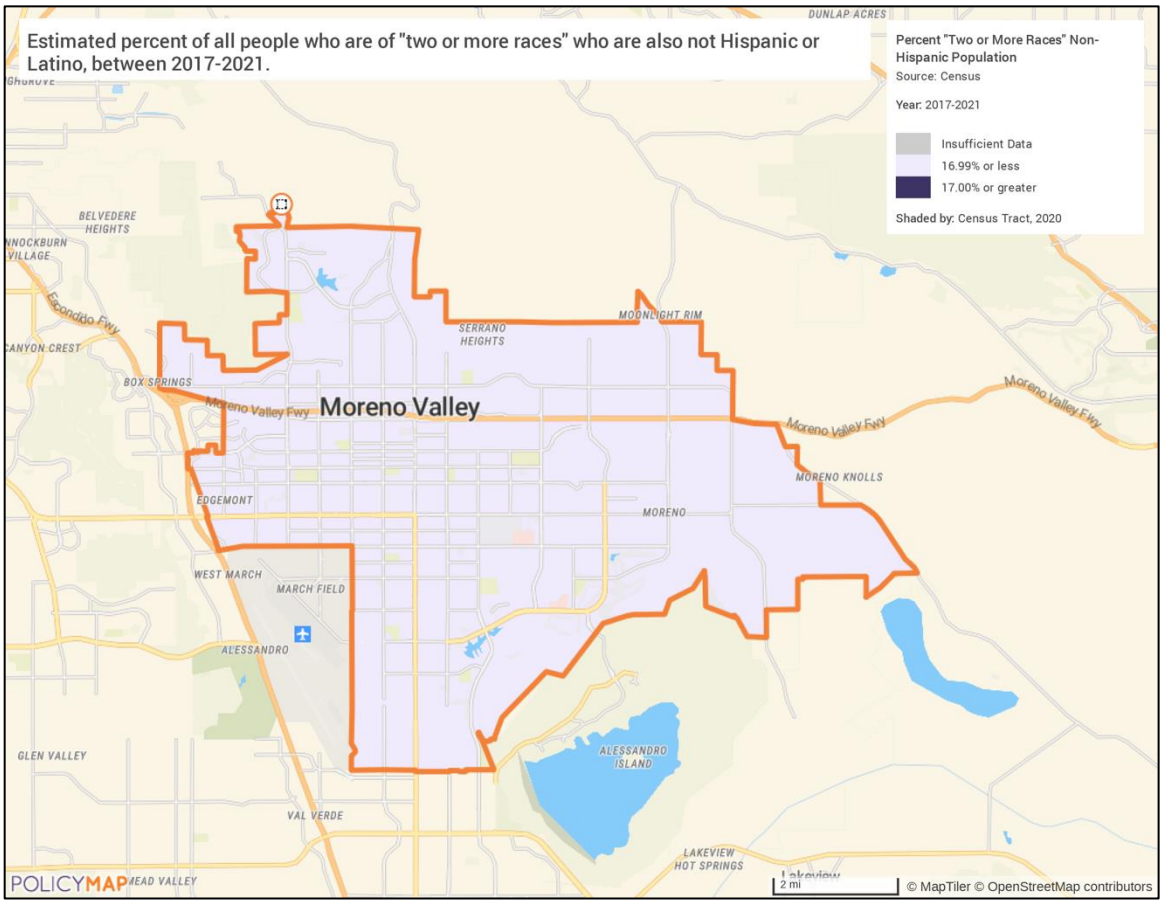


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Multiracial, non-Hispanic

There are no tracts that have a concentration of multiracial, non-Hispanic residents.

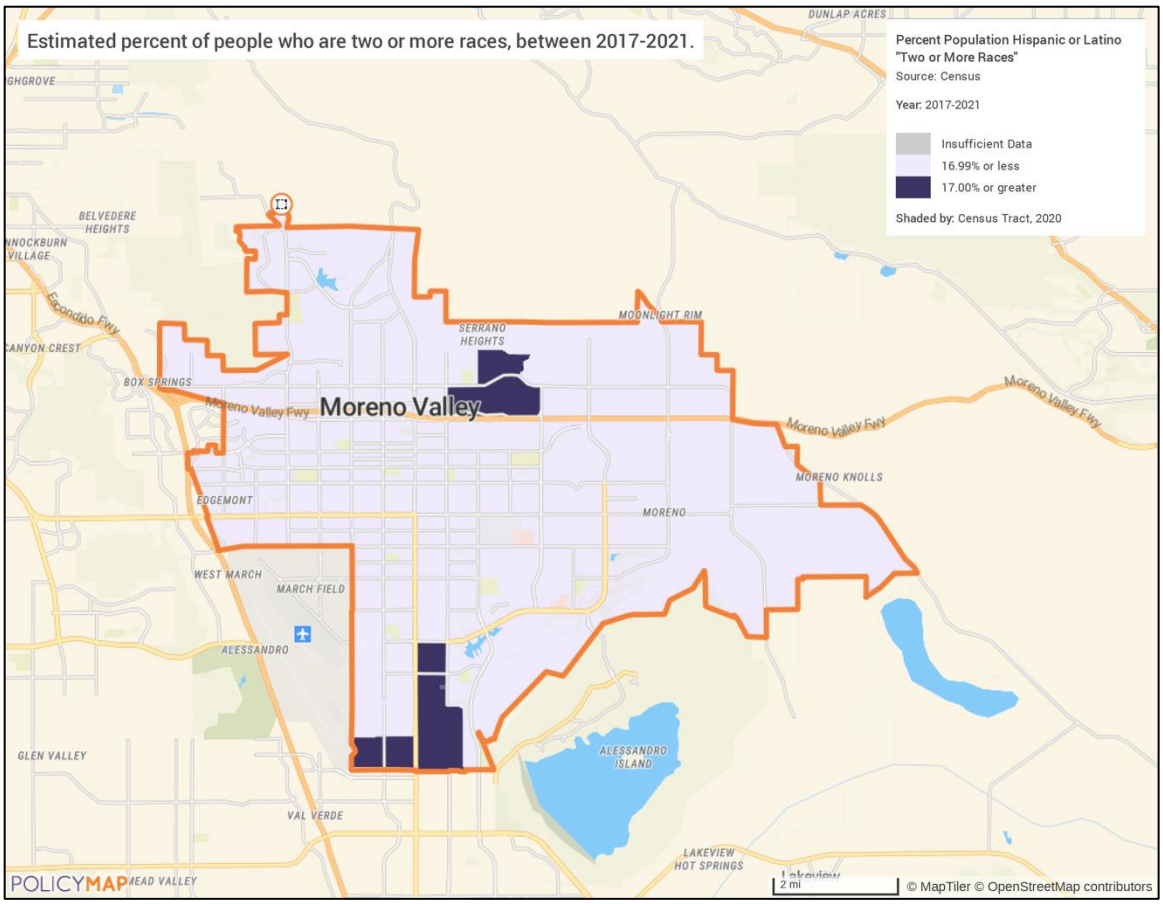


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Multiracial, Hispanic

There are a few tracts that have a concentration of multiracial, Hispanic residents. As the map below shows, there are two general areas with a concentration of this population. One area encompasses tracts on the northcentral part of the city and one area is in the south.

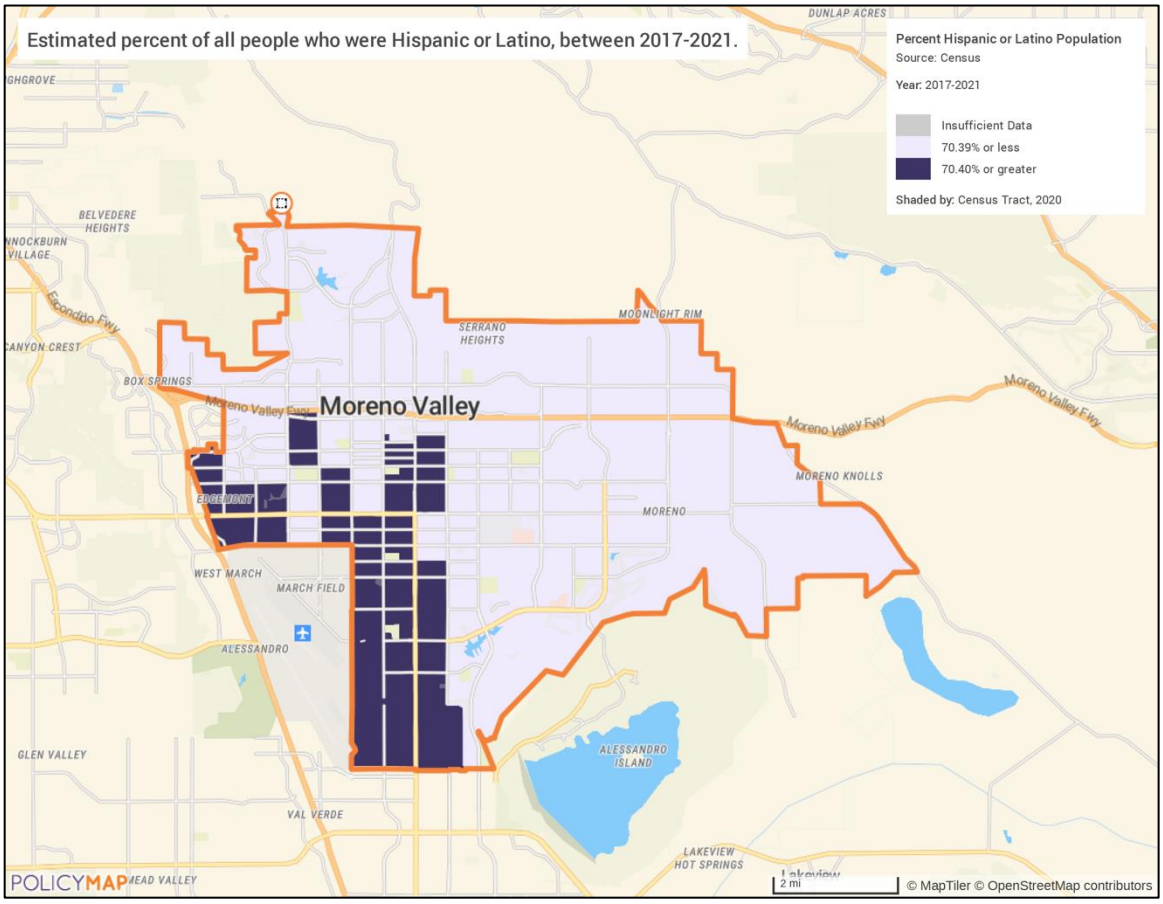


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Hispanic, all Races

Moreno Valley has multiple census tracts that have a concentration of Hispanic residents. As the map below shows, the southwest quadrant of the city has a large Hispanic population.

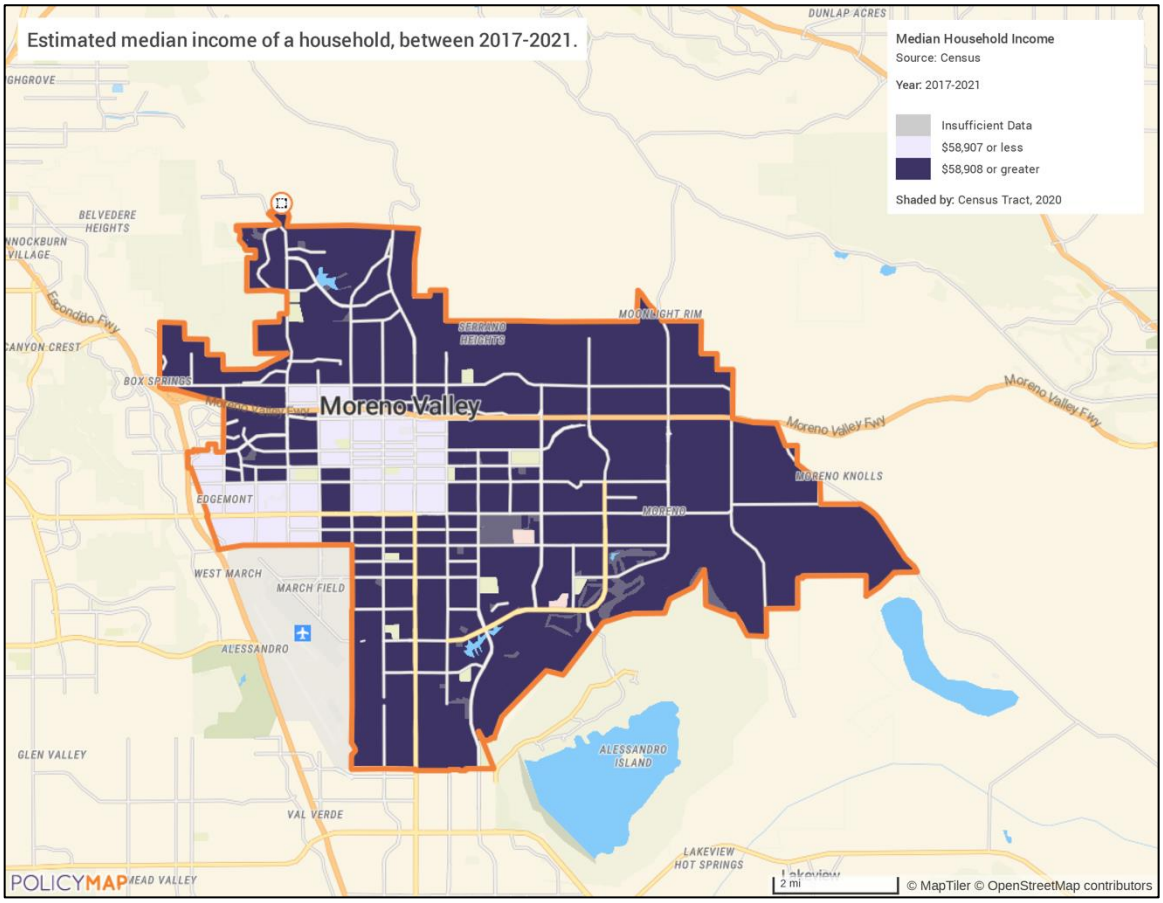


Source: ACS 2017-2021 via PolicyMap

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Low-Income Families

A family is considered low-income if it earns less than 80% of the area median income. A tract has a concentration of low-income families if the tract's median household income is less than 80% of the area median household income. The city median family income is $73,635 and relatively low-income is $58,908. Using this definition, the tracts on the west side of the city have a concentration of low-income families. These tracts match the areas with a concentration of Hispanic households and a concentration of Black, non-Hispanic households.



Source: ACS 2017-2021 via PolicyMap

What are the characteristics of the market in these areas/neighborhoods?

In the areas of the city that have disproportionately large number of low-income households, the housing market shows some unique characteristics. The units that tend to be older and have an increased risk of lead-based paint hazard overlap many of the same areas in the city. The units also tend to be in larger multi-family developments and have an increased rate of housing problems, which is common in older homes. Additionally, housing units in these areas have lower rents and home values. Due to the lower housing price in this area, it is possible that these areas are a prime place for reinvestment and improvement.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Are there any community assets in these areas/neighborhoods?

There are several community assets in this relative area. The following community centers are in the area and accessible to residents: Edgemont Community Center, Towngate Community Center, and Moreno Valley Community Education Center. The Moreno Public Library also has 2 locations in this area. The city has 24 affordable housing developments located in this concentrated area that are priced at below market rate and leased to very-low- to moderate-income households. On the perimeter of the area lies Highway 265 and 60 providing transportation opportunities for residents and businesses.

Are there other strategic opportunities in any of these areas?

The Village Specific Plan includes a portion of this geographic area. A purpose of the Village Plan is to revitalize the neighborhoods by providing a vision for the area and to create a balanced distribution of land uses. CDBG funds have been expended in the Village area including the installation of curbs, gutters, and sidewalks; park improvements; and street improvements. In addition to this Specific Plan and other redevelopment projects, there are several economic opportunities in the identified area that aim to create a robust walkable community where jobs, recreation, and housing can thrive in one place.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-60 Broadband Needs of Housing occupied by Low- and Moderate-Income Households - 91.210(a)(4), 91.310(a)(2)

Describe the need for broadband wiring and connections for households, including low- and moderate-income households and neighborhoods.

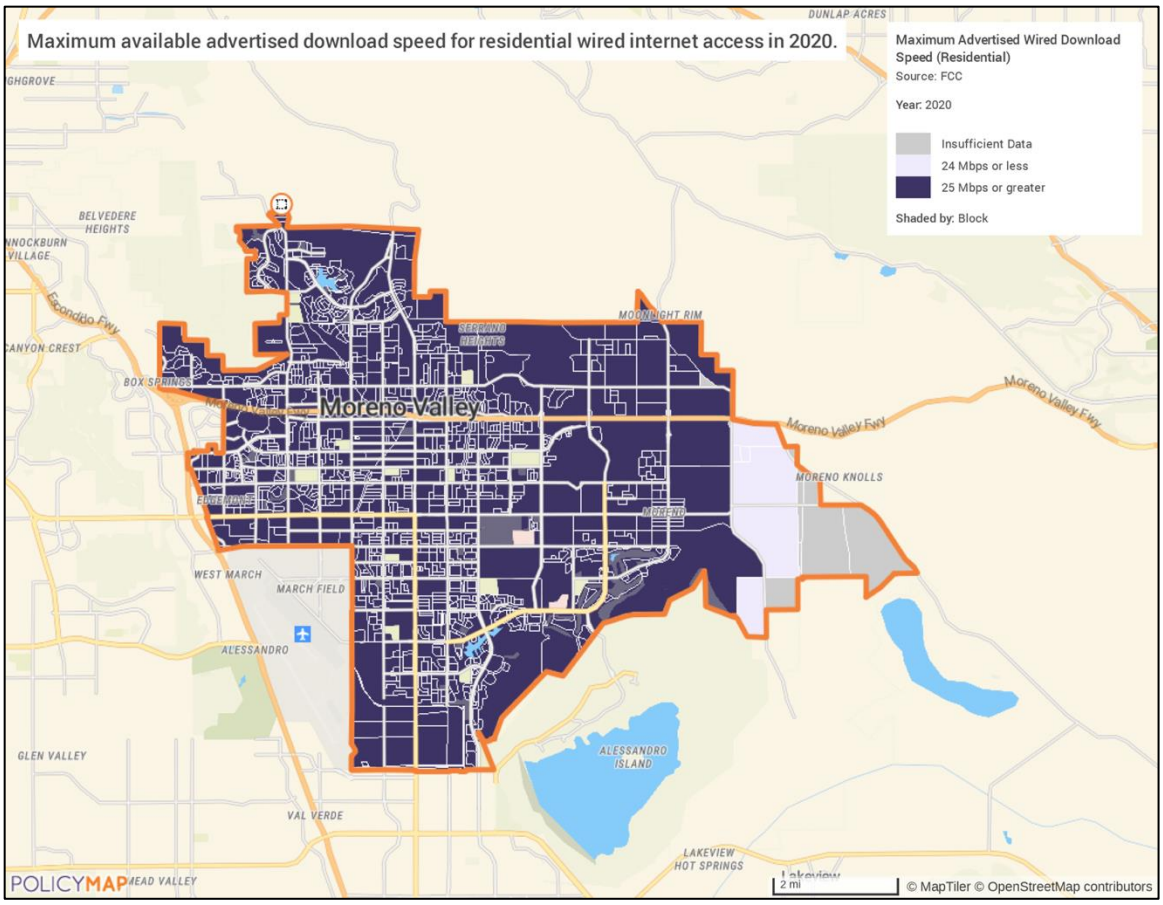
Internet is an essential communications and information platform that allows users to take advantage of the increased interconnectedness of business, education, commerce, and day-to-day utility. The FCC definition of broadband includes download speeds faster than 25 Mbps. Broadband is accessible to 99.6% of Moreno Valley.

Reliable access to the internet is a necessity to thrive in the modern economic environment. Communities that lack broadband access struggle to keep pace with the country. Locations without broadband access impedes its population's ability to take advantage of the educational and entrepreneurial opportunities available online. This is particularly problematic for LMI areas where economic opportunities are already often lacking. Moreno Valley does not have significant gaps in broadband coverage in the residential areas. Nearly all the city has multiple options of internet providers, to include LMI areas.

According to Stanford University, the "digital divide" refers to the growing gap between the underprivileged members of society, especially the poor, rural, elderly, and handicapped portion of the population who do not have access to computers or the internet; and the wealthy, middle class, and young Americans living in urban and suburban areas who have access. RIVCOconnect is a Riverside County initiative, supported by the Riverside County Board of Supervisors and Executive Office, and led by Riverside County Information Technology (RCIT), that seeks to remove the roadblocks that obstruct service providers from building out current infrastructure. RIVCOconnect invites the private sector to deliver broadband services Countywide at speeds of 1 Gbps and above. RIVCOconnect also has a Digital Equity Program that provides refurbished computers to low-income families and non-profit organizations within Riverside County at no cost.

The following map shows broadband access throughout the city. The FCC definition of broadband includes download speeds faster than 25 Mbps. FCC data shows three major infrastructure options within Moreno Valley: cable, DSL, and fiber.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Source: ACS 2017-2021 via PolicyMap

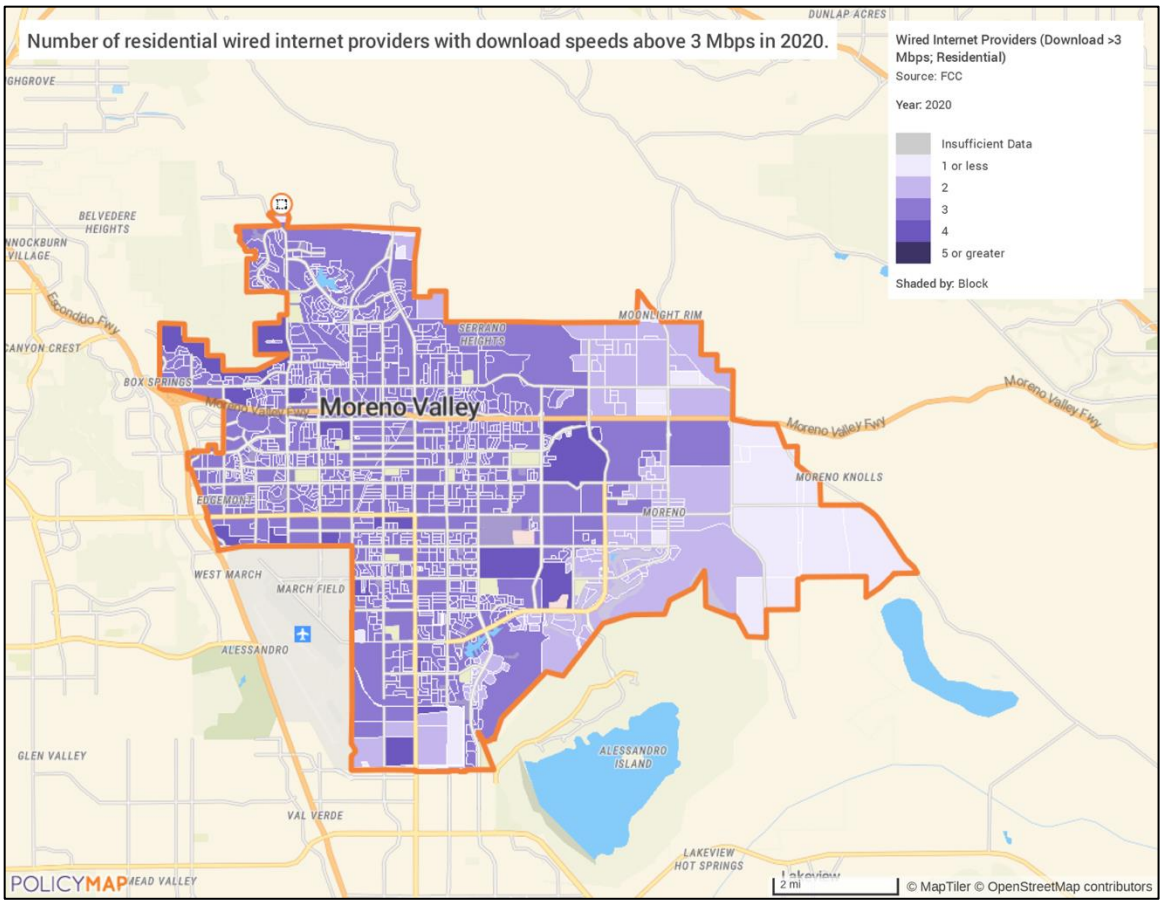
Describe the need for increased competition by having more than one broadband Internet service provider serve the jurisdiction.

Once broadband access has been obtained, it is important to ensure there is competition among service providers. Any resource that has a de facto monopoly on an area may not be incentivized to provide standard and consistent services. The city has three types of internet service providers: cable, DSL and fiber. There are 22 internet service providers in Moreno Valley. The following providers who cover over 95% of the city with broadband:

- Spectrum (Cable)
- Frontier (Fiber)
- Viasat Internet (Satellite)
- HughesNet (Satellite)

The following map shows the number of broadband service providers by block. Most of the residential areas in the city have two (2) options of high-speed internet with competitive providers, though there are some tracts with lower populations that only have access to one provider.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT



Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

MA-65 Hazard Mitigation - 91.210(a)(5), 91.310(a)(3)

Describe the jurisdiction's increased natural hazard risks associated with climate change.

The City of Moreno Valley is in the northwestern portion of Riverside County, surrounded by the Box Springs Mountains, the hills of the Badlands and the mountains of Lake Perris State Recreation Area. According to the city's 2011 Local Hazard Mitigation Plan (LHMP), because of the topography and the climate, the air basin of the city allows for high air pollution potential.

Additionally, the LHMP identifies multiple natural hazard risks and their probability and severity. The most probable risk identified is power outage, followed by earthquakes, wildland and urban fires, flooding, drought, extreme weather, and severe wind. The most severe of these potential risks would be earthquakes. Three major faults directly affect Moreno Valley: the San Andreas Fault, the San Jacinto Fault, and the Elsinore Fault. The San Jacinto Fault is considered the most active fault in Southern California and is the closest to the city, running through its eastern side.

Riverside County's 2019 Local Hazard Mitigation Plan Identifies similar increased natural hazard risks, citing earthquakes, fire, and flooding as the most prominent risks for the County area.

Describe the vulnerability to these risks of housing occupied by low- and moderate-income households based on an analysis of data, findings, and methods.

Low- and moderate-income residents in the area are incredibly vulnerable to the risks of these climate-based natural hazards. While the risks of earthquakes widely depend on the severity, sudden ground shaking has the potential to severely damage housing stock. According to Riverside County's LHMP, a moderate earthquake can cause serious damage to property, including collapsing walls, breaking glass, and more.

LMI residents also face the greatest risk of social and financial impact from exposure to wildfires in wildland-urban interface (WUI) areas. These are areas where structures and other human development meet or intermingle with undeveloped wildland or vegetative fuels, making them much more susceptible to fire. Wildfires can often become uncontrollable and cause severe damage and destruction to the local housing stock.

Additionally, LMI households typically have fewer economic resources, are less able to respond to a disaster without assistance and are less likely to be able to access available local, state, and federal assistance needed for recovery. Dramatic increases in electricity or housing costs can put LMI households at risk of homelessness. Special populations such as people with disabilities, non-English speakers, and homeless individuals are disproportionately more likely to need additional support, such as medical equipment, access to evacuation information, or basic shelter.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Strategic Plan

SP-05 Overview

Strategic Plan Overview

The Strategic Plan is the centerpiece of the Consolidated Plan. The Plan describes:

- General Priority Needs
- Influence of Market Conditions
- Anticipated Resources
- Institutional Delivery System
- Goals Summary
- Public Housing Accessibility and Involvement
- Barriers to Affordable Housing
- Homeless Strategy
- Lead Based Paint Hazards
- Anti-Poverty Strategy
- Monitoring

Key components of the Strategic Plan include three strategies: homeless strategy, actions to reduce lead-based paint hazards, and anti-poverty strategy. The nature and scope of each strategy is described below.

Homeless Strategy

- Outreach to homeless persons (especially unsheltered persons) and assess their individual needs.
- Fill gaps created by lack of emergency shelter and transitional housing needs for those experiencing homelessness.
- Help homeless persons (especially chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth) make the transition to permanent housing and independent living.
- Help low-income individuals and families avoid becoming homeless, especially extremely low-income individuals and families who are:
    1. Likely to become homeless after being discharged from publicly funded institutions and systems of care.
    2. Receiving assistance from public and private agencies that address housing, health, social services, employment, education, or youth needs.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Reduction of Lead-Based Paint Hazards Strategy

- Actions to evaluate and reduce lead-based paint hazards.
- Actions to increase access to housing without health hazards.
- How actions will be integrated into housing policies and programs.
- How the actions are related to the extent of lead poisoning and hazards.

Anti-Poverty Strategy

- Establish goals, programs, and policies for reducing the number of poverty-level families such as:
    - Activities designed to reduce the number of persons in poverty.
    - Coordination of housing programs funded through the Consolidated Plan with other City funding.
    - Job training, job placement, life skills training, and welfare to work programs.
    - Policies for providing employment and training opportunities to Section 3 residents pursuant to 24 CFR 135.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-10 Geographic Priorities – 91.215 (a)(1)

Geographic Area

1	**Area Name**	Eligible CDBG Target Areas
	Area Type	Local Target Area
	HUD Approval Date	N/A
	% of Low/Mod	N/A
	Revital Type	Comprehensive
	Other Revival Type Description	N/A
2	**Area Name**	Citywide
	Area Type	Local Target Area
	HUD Approval Date	N/A
	% of Low/Mod	N/A
	Revital Type	Comprehensive
	Other Revival Type Description	N/A

Table 46 - Geographic Priority Areas

General Allocation Priorities

The CDBG program requires that each CDBG-funded activities principally benefit low- and moderate-income persons, aid in the prevention or elimination of slums or blight, or meet a community development need having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community and other financial resources are not available to meet that need. With respect to activities that principally benefit *low- and moderate-income persons, at least 51% o*f the activity's beneficiaries must be low and moderate income.

Some CDBG assisted activities, such as parks, neighborhoods, public facilities, community centers and streets, serve an identified geographic area. These activities generally meet the low- and moderate-income principal benefit requirement if 51% of the residents in the activity's *service area* are low- and moderate- income.

When determining the geographic locations where Moreno Valley will allocate its investments, staff will consider if the activity will be physically located within a designated CDBG Target Area, and if the activity is meant to directly benefit the low-to-moderate income population in that area.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

The City may also consider current poverty levels of an area when determining geographic location priorities. Poverty levels can act as a measure of need, providing staff with insight to fund services appropriately. Staff will also take public demand into account, recommendations from other City departments (such as Code Enforcement, Capital Projects, or the Police Department), reports from CDBG subgrantees which track referrals and measure trends in service levels, recommendations of other local entities such as the Continuum of Care, Department of Public Social Services, Housing Authority, Economic Development Agency, and local non-profits.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-25 Priority Needs - 91.215(a)(2)

Priority Needs

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

1	**Priority Need Name**	Substandard Housing
	Priority Level	High
	Population	Extremely Low Low Moderate Elderly Frail Elderly Persons with Physical Disabilities
	Geographic Areas Affected	CDBG TARGET AREA(S)
	Associated Goals	Housing and Neighborhood Improvement Activities
	Description	Rehabilitated mobile homes and single-family homes in need of repairs.
	Basis for Relative Priority	The 2014-2021 Housing Element indicates that mobile homes and single-family homes exhibit substandard housing conditions. Moreno Valley's existing housing stock includes 1,364 mobile homes of which 872 are in seven mobile home parks. The existing housing stock contains 45,220 single family dwellings. T
2	**Priority Need Name**	Homelessness
	Priority Level	High
	Population	Extremely Low Chronic Homelessness Persons with Mental Disabilities Victims of Domestic Violence
	Geographic Areas Affected	CDBG TARGET AREA(S)
	Associated Goals	Homeless/Homelessness Prevention Activities
	Description	Address and prevent homelessness.
	Basis for Relative Priority	In Moreno Valley at least 42.5% of the population experience cost burdens, which is a factor of being at risk of homelessness.
3	**Priority Need Name**	Public Facilities and Infrastructure

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	Priority Level	High
	Population	Extremely Low Low Moderate
	Geographic Areas Affected	CDBG TARGET AREA(S)
	Associated Goals	Capital Improvement Activities
	Description	Some of the public facilities such as parks and public buildings which are in low and moderate neighborhoods need improvement and some neighborhoods lack adequate drainage systems, water lines, traffic signals, street lighting and street improvements.
	Basis for Relative Priority	Moreno Valley has a wide range of community development issues, particularly in older neighborhoods where the housing stock, public improvements and community facilities are deteriorating, and businesses are declining.
4	**Priority Need Name**	Public Service Programs
	Priority Level	High
	Population	Extremely Low Low Moderate Elderly Frail Elderly Persons with Physical Disabilities Other
	Geographic Areas Affected	CDBG TARGET AREA(S)
	Associated Goals	Public Service Activities
	Description	Improving the quantity and quality of public services, principally for low-and- moderate income persons, including the homeless, elderly, and disabled
	Basis for Relative Priority	The responses to notices of CDBG, CDBG and HOME funding availability have demonstrated the need to continue to financially support the activities of organizations addressing the needs of low- and moderate-income persons

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

5	**Priority Need Name**	Housing Discrimination
	Priority Level	High
	Population	Extremely Low Low Moderate Large Families Families with Children Elderly Frail Elderly Persons with Mental Disabilities Persons with Physical Disabilities Persons with Developmental Disabilities Victims of Domestic Violence
	Geographic Areas Affected	Citywide
	Associated Goals	Fair Housing Activities
	Description	Need for fair housing and tenant/landlord counseling services
	Basis for Relative Priority	HUD requirement to engage in efforts to further fair housing choice.
6	**Priority Need Name**	Economic Development
	Priority Level	High
	Population	Extremely Low Low Moderate
	Geographic Areas Affected	Citywide
	Associated Goals	Economic Development Activities
	Description	Strong economic development is needed to retain and attract businesses and to reduce the unemployment and poverty rates
	Basis for Relative Priority	Economic development was identified as a priority need by the City's Economic Development Strategy Plan and research and analysis completed for several planning studies
7	**Priority Need Name**	Planning and Administration

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

	Priority Level	High
	Population	Extremely Low Low Moderate Large Families Families with Children Elderly Frail Elderly Persons with Mental Disabilities Persons with Physical Disabilities Persons with Developmental Disabilities Persons with Alcohol or Other Addictions Non-housing Community Development
	Geographic Areas Affected	Citywide
	Associated Goals	Planning and Administration
	Description	Overall program management, coordination, monitoring, and evaluation of projects funded by CDBG, HOME and ESG funds and the preparation of the Annual Action Plans and CAPERs.
	Basis for Relative Priority	Administration of HUD programs is needed to carryout successful activities that have positive community impacts.

Table 47 – Priority Needs Summary

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-30 Influence of Market Conditions – 91.215 (b)

Influence of Market Conditions

Affordable Housing Type	Market Characteristics that will influence the use of funds available for housing type
Tenant Based Rental Assistance (TBRA)	In determining whether to undertake TBRA programs, the City will take into consideration: documented local need, documented local demand, existing services offering that type of assistance currently provided by the City and/or its subgrantees, existing services offering that type of assistance currently provided by other regional organizations (i.e., County and State programs), the possibility of expansion of financial education programs, evaluation of the area rents, costs of utilities, degree of need based on other pertinent community needs, available funding and how many persons the funding is able to assist.
TBRA for Non-Homeless Special Needs	In determining whether to undertake TBRA for non-homeless/ special needs programs, the City will take into consideration: documented local need, documented local demand, degree of need based on other pertinent community needs, existing services offering that type of assistance currently provided by the City and/or it's subgrantees, existing services offering that type of assistance currently provided by other regional organizations (i.e., County and State programs), area statistics for special needs populations, evaluation of changing trends
New Unit Production	The City will evaluate individual projects/proposals with an emphasis on the availability of adequate amount of funding to subsidize the new project and/or the availability of other (funding) resources in which to leverage projects. The City will consider the land values, analysis of the overall construction costs and 'cost per door' as per industry standards. It will compare costs to past City projects, and research to ensure reasonable development fees are imposed.
Rehabilitation	At the City level, enough City entitlement is available to offer rehab a program and there is sufficient staff capacity to adequately carry-out/manage rehab programs. At the market level, characteristics that would influence the use of housing funds toward a rehab activity include home values, homeowner's ability and willingness to borrow money, construction costs, public need and demand, evaluation of housing types in need of rehab and specific circumstances and types of repairs needed for those housing units, availability of other funding sources in which to leverage projects.
Acquisition, including preservation	Prior to any acquisition, the City would consider the following market characteristics: a full evaluation of parcel size, zoning, and allowable land uses, proximity to Target Areas, current land values, costs of maintenance (current and long term), projection of how quickly a project would be completed, availability of monies in which to purchase land

Table 48 – Influence of Market Conditions

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-35 Anticipated Resources - 91.215(a)(4), 91.220(c) (1,2)

Introduction

The city is using its FY 2023-2024 yearly allocation as a basis to estimate the funding it may receive over the course of the 5-year period of the Consolidated Plan. Based on its estimates the City anticipates resources to be received from the CDBG, HOME and ESG programs in the following amounts:

- CDBG $9.5 million
- HOME $3.77 million
- ESG $845,000

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Anticipated Resources

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Program	Source of Funds	Uses of Funds	Expected Amount Available Year 1				Expected Amount Available Remainder of ConPlan $	Narrative Description
			Annual Allocation: $	Program Income: $	Prior Year Resources: $	Total: $		
CDBG	Public - Federal	Acquisition; Admin and Planning; Economic Development; Housing; Public Improvements; Public Services	$1,979,019	$0	$421,191	$2,400,210	$7,520,981	A formula-based program that annually allocates funds to metropolitan cities, urban counties, and states for a wide range of eligible housing and community development activities
HOME	Public - Federal	Acquisition; Homebuyer Assistance; Homeowner Rehab; Multifamily Rental New Construction; Multifamily Rental Rehab; New Construction for Ownership; TBRA	$755,989	$0	$1,953,951	$2,709,940	$3,019,011	A formula-based program that provides allocations to states and units of general local governments, known as participating jurisdictions. Its purpose is to retain and expand the supply of affordable housing principally for low- and extremely low-income families through housing rehabilitation, new construction, first-time home buyer financing, and rental assistance

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

ESG	Public - Federal	Conversion and Rehab for Transitional Housing; Financial Assistance; Overnight Shelter; Rapid Re-Housing (rental assistance); Rental Assistance Services; Transitional Housing	$169,365	$0	$0	$169,365	$675,635	A formula -based program that allocates funds to states, metropolitan cities, and urban counties to support emergency shelters and other assistance for homeless individuals and families.

Table 49 - Anticipated Resources

Explain how federal funds will leverage those additional resources (private, state, and local funds), including a description of how matching requirements will be satisfied.

Leveraging

The City and HUD share an interest in leveraging HUD resources to the maximum extent feasible to address priority needs and associated goals.

During the 5-year period of the ConPlan the City will seek funds to leverage the Federal CDBG, HOME and ESG funds.

Volunteer services and private donations provide additional resources to leverage CDBG funds for public service projects.

In the past, Moreno Valley has actively leveraged its affordable housing projects, mostly with Redevelopment Set-aside funds. As the Redevelopment Agency was dissolved, the city will continue its efforts to leverage projects with other available resources. Some potential leveraging resources are listed below:

- Low-income Housing Tax Credit (LIHTC): The California Tax Credit Allocation Committee (TCAC) allocates federal and state tax credits to affordable housing projects. Corporations provide equity to build the projects in return for the tax credits.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

- Affordable Housing Sustainable Communities Housing Program: AHSC directs investments to historically under-invested communities, giving more Californians access to opportunity. At least 50% of AHSC funding is required by state law to be allocated to affordable housing and projects in, or that provide a benefit to, disadvantaged communities.

- Housing Choice Vouchers: The Section 8 rental voucher program provides rental assistance to help very low-income families afford decent, safe, and sanitary rental housing. The County of Riverside Housing Authority pays the owner a portion of the rent (a housing assistance payment (HAP)) on behalf of the family.

- Mortgage Credit Certificate Program: Income tax credits are available to first-time homebuyers to buy new or existing single-family housing. Riverside County administers the program on behalf of jurisdictions in the County. A Mortgage Credit Certificate (MCC) entitles qualified home buyers to reduce the amount of their federal income tax liability by an amount equal to a portion of the interest paid during the year on a home mortgage.

Matching Requirement

Entitlement cities receiving HOME funds are required to contribute a 25% match of non-HOME funds for every dollar of HOME funds spent. The HOME statute also provides a reduction of the matching contribution under three conditions: 1. Fiscal distress, 2. severe fiscal distress, and 3. presidential disaster declarations. Moreno Valley has been identified by HUD as a fiscally distressed jurisdiction for several consecutive years and has been granted a 100-percent match reduction. The City anticipates that the 'fiscally distressed' classification to continue through the entire Consolidated Plan period.

If appropriate, describe publicly owned land or property located within the jurisdiction that may be used to address the needs identified in the plan.

Current land holdings that may be available for affordable housing developments include:

- Day/Alessandro - 8.15 acres
- Fir/Heacock - 0.90 acres
- JFK/Elm - 0.17 acres
- Sheila/Perris - 0.18 acres

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

SP-40 Institutional Delivery Structure – 91.215(k)

Explain the institutional structure through which the jurisdiction will carry out its consolidated plan including private industry, non-profit organizations, and public institutions.

Responsible Entity	Responsible Entity Type	Role	Geographic Area Served
City of Moreno Valley	Government	Administer HUD programs; Carryout activities as noted in the Consolidated Plan and Annual Action Plans; Reporting	Citywide

Table 50 - Institutional Delivery Structure

Assess of Strengths and Gaps in the Institutional Delivery System

The institutional delivery system requires the participation of many organizations to accomplish the goals identified in the Consolidated Plan. Coordination with other public and private agencies is necessary. The establishment of solid working relationships is key to assist and enable service providers to better assist those in need. The City has worked to build cooperative relationships with surrounding jurisdictions and agencies, as well as nonprofit organizations. This has proven to be strength for Moreno Valley.

Availability of services targeted to homeless persons and persons with HIV and mainstream services.

Homelessness Prevention Services	Available in the Community	Targeted to Homeless	Targeted to People with HIV
Homelessness Prevention Services			
Counseling/Advocacy	X	X	
Legal Assistance	X	X	
Mortgage Assistance	X		
Rental Assistance	X		
Utilities Assistance	X		
Street Outreach Services			
Law Enforcement	X		
Mobile Clinics			
Other Street Outreach Services		X	

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Supportive Services			
Alcohol & Drug Abuse		X	
Child Care	X	X	
Education	X	X	X
Employment and Employment Training	X	X	
Healthcare		X	X
HIV/AIDS		X	X
Life Skills	X	X	
Mental Health Counseling		X	X
Transportation		X	
Other			
Other			

Table 51 - Homeless Prevention Services Summary

Describe how the service delivery system including, but not limited to, the services listed above meet the needs of homeless persons (particularly chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth).

In addition to the services delivered by or with the City's assistance, the CoC implements a countywide Coordinated Entry System (CES) to assess homeless individuals/families using the VI-SPDAT data system that tracks the length of time a client has been on the streets or in emergency shelter. DPSS use HUD CoC Program planning grant funding to measure system wide performance in HMIS, such as length of time homeless. This is used to help the CoC prioritize and house those who have experiences the longest length of time being homeless. The planning process also includes working with the CoC Standards and Evaluation Committee to continue developing strategies to prioritize chronically homeless individuals/families with the longest time homeless and most severe needs, including:

- Increasing the supply of permanent supportive housing and rapid rehousing.
- Housing individuals/families identified in CES with the longest time homeless first.
- Using HMIS data to record episodes of homelessness and destination at program exit to track agency and system performance.

The CoC has also adopted a "Housing First" approach that is based evidence-based and promising practices and endorsed by HUD to place a homeless individual or family in permanent housing and provide services to keep them stably housed.

Homeless CoC youth providers have implemented outreach and service-based events in the communities to draw homeless youth, unaccompanied and transitional age, into contact with services available to them. Housing Authority of the County of Riverside in collaboration with Operation SafeHouse opened a permanent supportive housing program called Harrison House for transitional age youth, in the eastern region of Riverside County.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Describe the strengths and gaps of the service delivery system for special needs population and persons experiencing homelessness, including, but not limited to, the services listed above.

The city has cooperative relationships with surrounding jurisdictions, diverse types of agencies, and nonprofits who can help the city meet its Consolidated Plan goals. This coordination leads to solid working relationships that enable all service providers to better assist those in need.

Non-Profit Organizations: The City utilizes a variety of nonprofit organizations to address community needs, such as homelessness, special needs, fair housing, and food distribution services.

Public Housing Authority: The Housing Authority of the County of Riverside administers public housing and the Housing Choice Voucher Program (Section 8) for Moreno Valley residents.

JPA: The City is a member of the March Joint Powers Authority (JPA). The JPA is a public entity created for the purpose of addressing the use, reuse, and joint use of realigned March ARB. The JPA approved a Homeless Assistance Program and is the location of two local transitional homeless facilities.

Coordination with those described above has led to solid working relationships that enable all service providers to better assist those in need and create a strong network of individual agencies working toward a common goal.

Provide a summary of the strategy for overcoming gaps in the institutional structure and service delivery system for carrying out a strategy to address priority needs.

With resources becoming more and more limited, the City proposes to overcome gaps in institutional structure by:

1. Maintaining open communication with subgrantees and other consolidated planning partners.
2. Utilizing technology to share, distribute information, foster, and maintain constant contact with community planning partners.
3. Recommending and assisting to coordinate the use of volunteers (volunteer-based organizations) in which to fill gaps where it logically makes sense.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-45 Goals Summary – 91.215(a)(4)

Goals Summary Information

Goals and funding noted in the table below are estimates based on predicted funding allocations over the course of the 5-year Consolidated Plan.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Sort Order	Goal Name	Start Year	End Year	Category	Geographic Area	Needs Addressed	Funding	Goal Outcome Indicator
1	Capital Improvement Activities	2023	2028	Non-Housing Community Development	Target Areas	Capital Improvement Activities	CDBG: $5,825,000	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit: 11,000 Persons Assisted
2	Fair Housing Activities	2023	2028	Public Service	Citywide	Housing Discrimination	CDBG: $350,000	Persons Assisted: 300,000 Persons Assisted
3	Public Services Activities	2023	2028	Public Service	Citywide; Target Areas	Public Service	CDBG: $1,425,000	
4	Homeless/Homelessness Prevention Activities	2023	2028	Homeless	Citywide	Homelessness	ESG: $781,625	Homelessness Prevention: 800 Persons Assisted
5	Housing and Neighborhood Improvement Activities	2023	2028	Housing	Target Areas	Substandard Housing	HOME: $3,397,500	16 Household Housing Unit Homeowner Housing Rehabilitated: 90 Household Housing Unit
6	Planning and Administration	2023	2028	Program Administration	Citywide	Planning and Administration	CDBG: $1,900,000 ESG: $63,375 HOME: $377,500	Other: 0
7	Health, Safety, and Public Welfare	2023	2028	Non-Housing Community Development	Citywide; Target Areas	Public Health and Safety	TBD, at later date	TBD, at later date
8	Economic Development Activities	2023	2028	Economic Development	Citywide	Economic Development	TBD, at later date	Businesses Assisted; Jobs Retained or Created
9	Slum or Blight Activities	2023	2028	Slum and Blight	Target Areas	Slum and Blight	TBD, at later date	Other
10	Historic Preservation	2023	2028	Historic Preservation	Target Areas	Historic Preservation	TBD, at later date	Other

Table 52 – Goals Summary

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Goal Descriptions

1	**Goal Name**	Capital Improvement Activities
	Goal Description	Acquisition, design, construction, and installation of needed public facilities and improvements located in CDBG income eligible Target Areas where infrastructure is missing or substandard. Public facilities and improvements may include ADA-compliant ramps and sidewalk improvements, storm drains, and water and sewer lines. Improvements shall facilitate pedestrian activity, eliminate flooding, and provide for safer streets within the Target Areas.
2	**Goal Name**	Fair Housing Activities
	Goal Description	The promotion of housing choice and support of state and federal fair housing laws to ensure that all residents have access to a decent home in a suitable living environment in the City. Fair Housing activities are met by promoting and affirmatively furthering equitable housing opportunities through education, counseling, enforcement, and training.
3	**Goal Name**	Public Services Activities
	Goal Description	Improving the quantity and quality of public services, principally for low-and- moderate income persons, including the homeless, elderly, and disabled. The following services are identified by order of priority: 1. 'Basic Needs' Related Social Services Programs (such as but not limited to emergency food, shelter (homelessness), and utility assistance) 2. Community Public Safety Programs 3. Programs offering Low-Cost Transportation 4. Employment Services/Programs and Job (Skills) Training 5. Free/Low-Cost programs for School-Aged Youth
4	**Goal Name**	Homeless/Homelessness Prevention Activities

	Goal Description	Improve the quality of life for the city's homeless and those threatened with homelessness by extending emergency services aimed at assisting, protecting, and improving the living conditions and ultimately stabilizing the housing situation of those individual(s).
5	**Goal Name**	Housing and Neighborhood Improvement Activities
	Goal Description	Conserving and improving housing stock through rehabilitation of units occupied by low-and-moderate income households. Activities are designed to: (1) improve existing substandard or deteriorated housing stock that does not meet building, safety, or fire code and (2) achieve the goals identified in the City's Consolidated Plan.
6	**Goal Name**	Planning and Administration
	Goal Description	Overall program management, coordination, monitoring, and evaluation of projects funded by CDBG, HOME and ESG funds and the preparation of the Annual Action Plans and CAPERs.
7	**Goal Name**	Health, Safety, and Public Welfare
	Goal Description	Eliminating conditions which are detrimental to health, safety, and public welfare through interim rehabilitation, community policing, code enforcement, etc.
8	**Goal Name**	Economic Development Activities
	Goal Description	Expanded economic opportunities through micro-enterprise loan programs and counseling as well as employment and job skills programs to create and retain jobs for low-and-moderate persons.
9	**Goal Name**	Slum or Blight Activities
	Goal Description	Elimination of slums and blight to prevent the deterioration of City neighborhoods, principally in the CDBG Target Areas.
10	**Goal Name**	Historic Preservation
	Goal Description	Restoring and preserving properties formally designated as historic structures.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Estimate the number of extremely low-income, low-income, and moderate-income families to whom the jurisdiction will provide affordable housing as defined by HOME 91.315(b)(2).

HOME 91.315(b)(2) definitions refer to the income eligibility and affordability requirements for housing financially assisted by the HOME program. These requirements are spelled out in detail in CFR 92.252 and CFR 92.254. The city estimates that HOME funds will assist 90 homeowners and 16 renter-occupied housing units.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

SP-50 Public Housing Accessibility and Involvement – 91.215(c)

Need to Increase the Number of Accessible Units (if Required by a Section 504 Voluntary Compliance Agreement).

This section is not applicable to the City.

Activities to Increase Resident Involvements.

This section is not applicable to the City.

Is the public housing agency designated as troubled under 24 CFR part 902?

This section is not applicable to the City.

Plan to remove the 'troubled' designation.

This section is not applicable to the City.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-55 Barriers to affordable housing – 91.215(h)

Barriers to Affordable Housing

As noted in section MA-40 of this plan, the city's barriers to affordable housing include:

- Lack of a Balanced Housing Stock.
- Need for Utilization of Bilingual Housing Materials.
- Rapid Increase in Home Prices and Cost Burdened Households.
- Reduction in Housing Funds.
- High Number of Cost Burdened Renters.

The City does not have growth limits, or policies and ordinances that regulate the number of housing units that can be constructed annually. The City does not have ordinances such as rent control that directly affect the residential investment rate of return. In affordable for-sale and for-rent projects, however, the City does enact controls to maintain affordability. For instance, in HOME-assisted ownership projects the City implements a recapture policy.

Furthermore, tax policy affecting land and other property is governed by California state law. Property taxes are based on a property's assessed value. State law mandates that all property is subject to taxation unless otherwise exempted. In general, properties that are owned and used by educational, charitable, religious, or government organizations may be exempt from certain property taxes. Housing for low-income households owned and operated by a qualifying nonprofit organization is eligible for exemption from property taxes.

Strategy to Remove or Ameliorate the Barriers to Affordable Housing

Key components that the city will engage in to ameliorate and/or remove barriers to affordable housing as follows:

- When feasible, consider reducing, waiving, or deferring development fees to facilitate the provision of affordable housing.
- Periodically review and revise City development standards to facilitate quality housing that is affordable to lower and moderate-income households.
- Monitor all regulations, ordinances, departmental processing procedures and fees related to the rehabilitation and/or construction of dwelling units to assess their impact on housing costs.
- Ensure that water and sewer providers are aware of the City's intentions for residential development throughout the City.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-60 Homelessness Strategy – 91.215(d)

Reaching out to homeless persons (especially unsheltered persons) and assessing their individual needs.

The City has developed a comprehensive Homeless Strategy that involves reaching out to homeless persons, assessing, and addressing their individual emergency/ housing needs. To reach these individuals, the City extends CDBG funding to a variety of public service subgrantees that in turn provide direct services which may including street outreach, case management, housing search assistance, emergency housing/motel vouchers, food, and counseling. These social service programs are often the primary source for referrals and assistance to homeless persons. Typically, homeless populations become aware of available programs through word of mouth and seek out services by calling the service provider or traveling to their local office.

The County of Riverside CoC has established chronically homeless persons as the highest need priority based on HUD established goals. The CoC implements a Coordinated Entry System (CES) to ensure appropriate intervention is utilized to serve those who are homeless and providing a prioritization of community resources and housing based on the vulnerability of the participant.

Within the CoC, there are several outreach teams from County, cities, and nonprofit homeless providers that cover specific populations or geographic regions in the County. There are also specific outreach teams serving those with mental health issues, veterans, youth, and persons experiencing chronic homelessness. The teams collaborate to conduct outreach and provide client services focused on the chronically homeless populations living on the streets to connect them with supportive services and achieve housing stability.

Addressing the emergency and transitional housing needs of homeless persons.

Addressing the housing needs of the homeless is the primary objective of ESG funding and one of the city's highest priorities for the use of CDBG public service dollars. ESG funding will be allocated to address the emergency shelter and housing needs of homeless persons located in Moreno Valley. The city’s ESG program allocation will be used to leverage homeless prevention efforts originally initiated by CDBG. However, ESG will provide for a much-needed injection of additional funding. The ESG program will be used to assist, protect, and improve living conditions for the homeless and provides for the following eligible activities:

- Outreach to homeless individuals and families living on the street.
- Improve the number and quality of emergency shelters for homeless individuals and families.
- Help operate shelters.
- Provide essential services to shelter residents.
- Rapidly re-house homeless individuals and families.
- Prevent families/individuals from becoming homeless.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Helping homeless persons (especially chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth) make the transition to permanent housing and independent living, including shortening the period of time that individuals and families experience homelessness, facilitating access for homeless individuals and families to affordable housing units, and preventing individuals and families who were recently homeless from becoming homeless again.

The City of Moreno Valley will continue to engage with systems that assists efforts for persons and families to transition to permanent housing and independent living through a variety of resources involving the continued partnerships and financial support to local nonprofit service providers and participation and support to the Riverside County Continuum of Care. Additionally, the Riverside County's Department of Public Social Services (DPSS) is considered the "umbrella" anti-poverty agency for the region. The goal of self-sufficiency for persons can be accomplished by moving poor families out of poverty. DPSS interacts with needy residents on many levels, and assists them through childcare, education, employment, training, health and human services, homelessness and housing with available mainstream programs.

Help low-income individuals and families avoid becoming homeless, especially extremely low-income individuals and families who are likely to become homeless after being discharged from a publicly funded institution or system of care, or who are receiving assistance from public and private agencies that address housing, health, social services, employment, education, or youth needs.

The Riverside County CoC has a standing six-year cooperative agreement between various key organizations and agencies that establish county-wide protocols and procedures intended to prevent people from being discharged from public and private institutions (programs) into homelessness. The agreement includes County Mental Health, Veterans, Sheriff's, and Children's Services Independent Living Program, as well as the Southern California Hospital Association, and administrators of the 2-1-1 telephone referral program, Community Connect of Riverside County. With the services made available via ESG funding, Community Connect and other partners can formally register its programs to ensure that the public is referred to appropriate ESG services, among others. City public service providers assists those threatened with homelessness by providing referrals and coordinating with other agencies to locate assistance for the family or individuals. Additionally, Moreno Valley dedicates ESG entitlement funding toward homeless prevention and rapid-re-housing efforts.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-65 Lead based paint Hazards – 91.215(i)

Actions to address LBP hazards and increase access to housing without LBP hazards.

To help evaluate and reduce the number of housing units containing lead-based paint(LBP) hazards the City has two main courses of action: (1) the City has integrated LBP hazards evaluation and reduction activities into its housing programs, and (2) the City also provides public information and education concerning lead-based paint.

How are the actions listed above related to the extent of lead poisoning and hazards?

Approximately 9,700 housing units were built before 1980. Based on the age of housing and the HUD-approved prevalence rates, it is likely that one-half (4.850) of the housing units built prior to 1980 may contain LBP.

How are the actions listed above integrated into housing policies and procedures?

Lead based paint issues are addressed via Moreno Valley's housing loan/grant programs. Housing program participants are provided the 'Renovate Right Informational Booklet' from the United States Environmental Protection Agency. Each participant signs a certification that they received and reviewed the booklet.

If a dwelling was constructed prior to 1978, the City contracts with Home Safe for a lead- based paint inspection of the property. If the property is found to contain lead-based paint, mitigation measures are incorporated as a part of the revitalization work.

A City housing specialist answers any questions a participant may have regarding the lead-based paint. City Building Inspectors also discuss with housing program participants any issues found in a dwelling and initiate further evaluation as necessary.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-70 Anti-Poverty Strategy – 91.215(j)

Jurisdiction Goals, Programs,and Policies for reducing the number of Poverty-Level Families.

The City strives to reduce the poverty rates of the city's population and neighborhoods.

During the 5-year Consolidated Plan cycle, the city believes that the most direct path to reducing the poverty rates in its neighborhoods is to concentrate efforts on the working poor and jobless adults in the labor force. To prevent generational poverty, the city can provide job skills or employment programs to help move people, in particular parents of young children, out of poverty.

Specific actions to reduce poverty are described below:

Provide Job Skills Training to Persons Living in the R/ECAP: The City can fund activities that provide jobs skills training to unemployed persons living in the R/ECAP. A key poverty reducing strategy is to provide appropriate technical education and training to low wage workers and unemployed workers in the labor force.

Increase Participation in Poverty Reducing Programs by Persons Living in the R/ECAP: The City will work to inform families living in the R/ECAP of poverty reducing programs such as the Earned Income Tax Credit (EITC). Research has demonstrated that increasing participation in safety net programs helps to reduce poverty rates.

Provide Job search and Placement Services to Low Wage and Unemployed Workers Living in the R/ECAP and High Poverty Neighborhoods: Annually, the city's Business Employment Resource Center (BERC) can provide job seekers with access to resources that are necessary to search and acquire employment within the city and surrounding areas. Assistance will be provided with preparing resumes, job applications and job searches as well as one-on-one mock interviews.

Policies to reduce the number of poverty-level families include:

- Anti-Poverty Policy #1: To continue to support and coordinate with public and private efforts aimed at preventing and reducing poverty level incomes.
- Anti-Poverty Policy #2: To conduct outreach with public and private agencies whose mission is to reduce poverty level incomes.
- Anti-Poverty Policy #3: Allocate CDBG public service funds to projects and activities that will help persons and families who have incomes below the poverty level.

How are the Jurisdiction poverty reducing goals, programs, and policies coordinated with this affordable housing plan.

The Anti-Poverty Strategy is directly coordinated with the City's Affordable Housing Plan/Strategy. A fundamental purpose of the housing programs is to reduce the cost burdens experienced by low- and moderate-income families. Many of these families have extremely low incomes and, therefore, likely to have poverty level incomes.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

SP-80 Monitoring – 91.230

Describe the standards and procedures that the jurisdiction will use to monitor activities carried out in furtherance of the plan and will use to ensure long-term compliance with requirements of the programs involved, including minority business outreach and the comprehensive planning requirements.

Monitoring serves as an effective tool to ensure that expenditures of funds are consistent with Federal requirements, CDBG National Objectives, and achieve program/project goals. The following outlines Moreno Valley's monitoring standards and procedures.

Subrecipients: When an organization becomes a city subrecipient, it must sign a contract with the city in which the scopes of work, timelines, and documentation requirements are outlined. On a monthly basis, each subrecipient must submit detailed information regarding the number, ethnicity, and income level of individuals benefiting from CDBG funds. Quarterly summary reports are required of some agencies in which further information is provided on activities accomplished during that quarter. The City conducts an on-site inspection of each agency at least once per year, usually toward the end of the funding cycle.

Construction Projects: All construction projects comply with Federal Labor and Procurement Procedures as well as the various affirmative action, equal opportunity, and Section 3 requirements mandated by various federal and state laws. Staff review contract preparation at each step from bid preparation, contract document preparation, pre- construction meetings, and ongoing project inspections.

Multi-Family Affordable Housing Programs: The City requires property owners who have received HOME funds to recertify their tenant's eligibility annually. They report information and provide documentation related to the property, unit occupancy, tenant information and financial reporting. Forms and applicable documentation such as Federal income tax returns are completed by tenants of reserved (affordable) units and submitted with the report. If the unit was occupied by multiple tenants, then a copy of the application, rental agreement, and the dates of residency must be provided. In addition, a copy of 'Determining Affordable Rent' is provided to the owner for the reserved units. A city building inspector conducts a property inspection to determine if the property complies with code requirements and in good condition. The City works with a recertification consulting service to ensure that the information is accurate and complete.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Annual Action Plan

AP-15 Expected Resources – 91.220(c) (1,2)

Introduction

For FY 2023-2024 the city of Moreno Valley anticipates the resources noted in Table 58 -*Expected Resources*

Anticipated Resources

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Program	Source of Funds	Uses of Funds	Expected Amount Available Year 1				Expected Amount Available Remainder of ConPlan $	Narrative Description
			Annual Allocation: $	Program Income: $	Prior Year Resources: $	Total: $		
CDBG	Public - Federal	Acquisition; Admin and Planning; Economic Development; Housing; Public Improvements; Public Services	$1,979,019	$0	$421,191	$2,400,210	$7,520,981	A formula-based program that annually allocates funds to metropolitan cities, urban counties, and states for a wide range of eligible housing and community development activities
HOME	Public - Federal	Acquisition; Homebuyer Assistance; Homeowner Rehab; Multifamily Rental New Construction; Multifamily Rental Rehab; New Construction for Ownership; TBRA	$755,989	$0	$1,953,951	$2,709,940	$3,019,011	A formula-based program that provides allocations to states and units of general local governments, known as participating jurisdictions. Its purpose is to retain and expand the supply of affordable housing principally for low- and extremely low-income families through housing rehabilitation, new construction, first-time home buyer financing, and rental assistance

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

ESG	Public - Federal	Conversion and Rehab for Transitional Housing; Financial Assistance; Overnight Shelter; Rapid Re-Housing (rental assistance); Rental Assistance Services; Transitional Housing	$169,365	$0	$0	$169,365	$675,635	A formula -based program that allocates funds to states, metropolitan cities, and urban counties to support emergency shelters and other assistance for homeless individuals and families.

Table 53 - Expected Resources – Priority Table

Explain how federal funds will leverage those additional resources (private, state, and local funds), including a description of how matching requirements will be satisfied.

The City and HUD share an interest in leveraging HUD resources to the maximum extent feasible to address priority needs and associated goals. Volunteer services and private donations provide additional resources to leverage CDBG funds for public service activities.

In the past, Moreno Valley has actively leveraged its affordable housing activities, mostly with Redevelopment Set-aside funds. As the Redevelopment Agency was dissolved, the City will continue its efforts to leverage activities with other available resources. Some potential leveraging resources are listed below:

- Low-income Housing Tax Credit (LIHTC): The California Tax Credit Allocation Committee (TCAC) allocates federal and state tax credits to affordable housing projects. Corporations provide equity to build the projects in return for the tax credits.

- Affordable Housing Sustainable Communities Housing Program: AHSC directs investments to historically under invested communities, giving more Californians access to opportunity. At least 50% of AHSC funding is required by state law to be allocated to affordable housing and projects in, or that provide a benefit to, disadvantaged communities.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

- Housing Choice Vouchers: The Section 8 rental voucher program provides rental assistance to help very low-income families afford decent, safe, and sanitary rental housing. The County of Riverside Housing Authority pays the owner a portion of the rent (a housing assistance payment (HAP)) on behalf of the family. There are 957 City households currently receiving Section 8 housing vouchers.

- Mortgage Credit Certificate Program: Income tax credits are available to first time homebuyers to buy new or existing single-family housing. Riverside County administers program on behalf of jurisdictions in the County. A Mortgage Credit Certificate (MCC) entitles qualified home buyers to reduce the amount of their federal income tax liability by an amount equal to a portion of the interest paid during the year on a home mortgage.

Matching Requirements: Entitlement cities receiving HOME funds are required to contribute a 25% match of non-HOME funds for every dollar of HOME funds spent. The HOME statute also provides a reduction of the matching contribution under three conditions: 1. Fiscal distress, 2. Severe fiscal distress, and 3. presidential disaster declarations. Moreno Valley has been identified by HUD as a fiscally distressed jurisdiction for several consecutive years and has been granted a 100 percent match reduction. The City anticipates that the 'fiscally distressed' classification to continue through the Annual Action Plan period.

The Emergency Solutions Grant program has a 100% match requirement that can be met as a dollar for dollar or with in kind services. During the FY 2023-2024 application process, the City has requested that ESG applicants be prepared to provide the match that would equal amounts of cash or in-kind services.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

If appropriate, describe publicly owned land or property located within the jurisdiction that may be used to address the needs identified in the plan.

Current land holdings that may be available for affordable housing developments include:

- Day/Alessandro 8.15 acres
- Fir/Heacock 0.90 acres
- JFK/Elm 0.17 acres
- Sheila/Perris 0.18 acre

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

AP-20 Annual Goals and Objectives

Goals Summary Information

Sort Order	Goal Name	Start Year	End Year	Category	Geographic Area	Needs Addressed	Funding	Goal Outcome Indicator
1	Capital Improvement Activities	2023	2024	Non-Housing Community Development	Target Areas	Capital Improvement Activities	CDBG: $**TBD**	Public Facility or Infrastructure Activities other than Low/Moderate Income Housing Benefit: **TBD** Persons Assisted
2	Fair Housing Activities	2023	2024	Public Service	Citywide	Housing Discrimination	CDBG: $**TBD**	**TBD** Persons Assisted
3	Public Services Activities	2023	2024	Public Service	Citywide; Target Areas	Public Service	CDBG: $**TBD**	**TBD** Persons Assisted
4	Homeless/Homelessness Prevention Activities	2023	2024	Homeless	Citywide	Homelessness	CDBG: $**TBD** ESG: $**TBD**	**TBD** Persons Assisted **TBD** Persons Assisted
5	Housing and Neighborhood Improvement Activities	2023	2024	Housing	Target Areas	Substandard Housing	HOME: $**TBD**	**TBD** Households Assisted
6	Planning and Administration	2023	2024	Program Administration	Citywide	Planning and Administration	CDBG: $395,804 ESG: $12,702 HOME: $75,599	Other: 0

Table 54 – Goals Summary

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

Goal Descriptions

1	**Goal Name**	Capital Improvement Activities
	Goal Description	Acquisition, design, construction, and installation of needed public facilities and improvements located in CDBG income eligible Target Areas where infrastructure is missing or substandard. Public facilities and improvements may include ADA-compliant ramps and sidewalk improvements, storm drains, and water and sewer lines. Improvements shall facilitate pedestrian activity, eliminate flooding, and provide for safer streets within the Target Areas.
2	**Goal Name**	Fair Housing Activities
	Goal Description	The promotion of housing choice and support of state and federal fair housing laws to ensure that all residents have access to a decent home in a suitable living environment in the City. Fair Housing activities are met by promoting and affirmatively furthering equitable housing opportunities through education, counseling, enforcement, and training.
3	**Goal Name**	Public Services Activities
	Goal Description	Improving the quantity and quality of public services, principally for low-and- moderate income persons, including the homeless, elderly, and disabled. The following services are identified by order of priority: 1. 'Basic Needs' Related Social Services Programs (such as but not limited to emergency food, shelter (homelessness), and utility assistance) 2. Community Public Safety Programs 3. Programs offering Low-Cost Transportation 4. Employment Services/Programs and Job (Skills) Training 5. Free/Low-Cost programs for School-Aged Youth
4	**Goal Name**	Homeless/Homelessness Prevention Activities

	Goal Description	Improve the quality of life for the city's homeless and those threatened with homelessness by extending emergency services aimed at assisting, protecting, and improving the living conditions and ultimately stabilizing the housing situation of those individual(s).
5	**Goal Name**	Housing and Neighborhood Improvement Activities
	Goal Description	Conserving and improving housing stock through rehabilitation of units occupied by low-and-moderate income households. Activities are designed to: (1) improve existing substandard or deteriorated housing stock that does not meet building, safety, or fire code and (2) achieve the goals identified in the City's Consolidated Plan.
6	**Goal Name**	Planning and Administration
	Goal Description	Overall program management, coordination, monitoring, and evaluation of projects funded by CDBG, HOME and ESG funds and the preparation of the Annual Action Plans and CAPERs.
	Goal Description	Restoring and preserving properties formally designated as historic structures.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

AP-35 Projects – 91.220(d)

Introduction

The City of Moreno Valley has selected a variety of proposed activities and activities aimed at meeting the goals and priority needs established in the Consolidated Plan. For HOME, the City has allocated the allowable max of 10% Administration to be utilized for staffing and administration. The mandatory 15% CHDO set aside has also been allocated. The remaining funds will be used to fund three different Housing and Neighborhood Improvement Activities. The City has a balance of $365,825 in unencumbered funds that it will allocate later in the fiscal year.

For ESG, the City has allocated the allowable max of 7.5% Administration to be utilized for staffing and administration. The city will fund one Neighborhood Improvement Activity. The City have a balance of $116,673 in unencumbered funds that it will allocate later in the fiscal year.

For CDBG, the City has allocated the maximum 15% Public Service cap for FY 2023-24. The 20% Administration cap will be utilized for staffing and administration. The remaining 65% will fund Neighborhood Improvements and Public (Street) Improvements.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Projects

#	Project Name
1	HOME - PROGRAM ADMINISTRATION
2	CHDO SET ASIDE - 2023
3	EUCALYPTUS SINGLE FAMILY HOMES FOR SALE TO 80% AMI, PREFERENCES FOR US VETERANS
4	HABITAT FOR HUMANITY - CRITICAL HOME REPAIR
5	NHSIE BUILDING BLOCKS: MORENO VALLEY
6	ESG – PLANNING AND ADMINISTRATION
7	REBUILD IE
8	CDBG – PLANNING AND ADMINISTRATION
9	BUILDING UP LIVES FOUNDATION – FREE MARKET PROJECT WITH COMMUNITY FOOD BOOTHS
10	FAMILY SERVICES ASSOCIATION – SENIOR NUTRITION PROGRAM
11	JUNIOR LEAGUE OF RIVERSIDE - DIAPER BANK OF THE INLAND EMPIRE
12	MORENO VALLEY SHERIFF'S DEPARTMENT – POP & CSU TARGETED COMMUNITY BENEFIT
13	RIVERSIDE AREA RAPE CRISIS CENTER – BUILDING SAFE COMMUNITIES
14	FRIENDS OF MORENO VALLEY SENIOR CENTER – MOVAN SENIOR TRANSPORTATION PROGRAM
15	BEAUTIFUL MINDS YOUTH ENTREPRENEURSHIP & EMPLOYMENT
16	WEECARE INC – BOOST (BUSINESS OPERATION & OPTIMIZATION SUPPORT TOOLS)
17	ASSISTANCE LEAGUE OF RIVERSIDE – OPERATION SCHOOL BELL
18	OPERATION SAFE HOUSE – EMERGENCY SHELTER FOR YOUTH
19	VOICES FOR CHILDREN – COURT APPOINTED SPECIAL ADVOCATE (CASA) PROGRAM
20	FAIR HOUSING COUNCIL OF RIVERSIDE COUNTY – ANTI-DISCRIMINATION AND LANDLORD TENANT COUNSELING
21	NEIGHBORHOOD HOUSING SERVICES OF THE INLAND EMPIRE – PROJECT GROW: MORENO VALLEY
22	CALIFORNIA DRUG CONSULTANTS, INC – INTEGRATED CARE REVITALIZATION PROJECT
23	PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS
24	GRID ALTERNATIVES – CITY OF MORENO VALLEY LOW-INCOME ENERGY ASSISTANCE PROGRAM
25	INLAND COMPASSION – MORENO VALLEY SANCTUARY
26	MARY ERICKSON COMMUNITY HOUSING – FIR-LASSELLE PERMANENT SUPPORTIVE - TRANSITIONAL HOUSING

Table 55 – Project Information

Describe the reasons for allocation priorities and any obstacles to addressing underserved needs.

Moreno Valley seeks to meet the federal national objectives of (1) providing benefits to the low and moderate income, (2) removing areas of slum and blight, and (3) meeting urgent or emergency community needs. The City also seeks to prioritize in a way that can assist goals set by the City Council including Revenue Diversification & Preservation, Public Safety, Positive Environment Community Image, and Neighborhood Pride & Cleanliness. Every year, in accordance with HUD's requirements, Moreno

Valley re-evaluates and updates its program specific Objectives and Policies to ensure they adequately reflect the current needs of the community. The updated Objectives and Policies must then be adopted at the local level by the City Council for the upcoming program year. CDBG, HOME, and ESG Objectives and Policies primarily focus on: (1) defining the City's funding priorities, (2) offering activity selection criteria, and (3) providing guidance for staff when reviewing and recommending programs and activities for funding.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-38 Project Summary

Project Summary Information

1	**Project Name**	HOME - PROGRAM ADMINISTRATION
	Target Area	City Wide
	Goals Supported	Planning and Administration
	Needs Addressed	Planning and Administration
	Funding	HOME: $75,599
	Description	Comprehensive planning and administration of the HOME grant program.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	N/A
	Location Description	14177 Frederick St., Moreno Valley, CA 92552
	Planned Activities	Administration of the HOME program including project management, various reporting, research, environmental reviews, completion of the Annual Action Plan, preparation of the CAPER report, on-site monitoring, etc.
2	**Project Name**	CHDO SET ASIDE - 2023
	Target Area	CDBG Target Area(s)
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Funding	HOME: $113,398
	Description	Mandatory 15% set-aside
	Target Date	TBD
	Estimate the number and type of families that will benefit from the proposed activities	TBD
	Location Description	TBD
	Planned Activities	Mandatory reservation of 15% annual HOME grant for a CHDO project (to be identified). The City plans to reach out to local CHDO's and attempt to successfully establish or research viable projects for low- moderate income households.
3	**Project Name**	EUCALYPTUS SINGLE FAMILY HOMES FOR SALE TO 80% AMI, PREFERENCES FOR US VETERANS
	Target Area	CDBG Target Area(s)
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	HOME: $**TBD**
	Description	New construction of seven (7) detached single family homes for sale to up to 80% Area Median Income (AMI) first time homebuyers with a preference for US Veterans and/other groups on the City-owned lot at Eucalyptus/Heacock.
	Target Date	TBD
	Estimate the number and type of families that will benefit from the proposed activities	31 Persons Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	City-owned lot at Eucalyptus/Heacock.
	Planned Activities	Funds will be used for construction, development subsidies and down payment loan assistance for the homebuyers.
4	**Project Name**	HABITAT FOR HUMANITY - CRITICAL HOME REPAIR
	Target Area	Citywide
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	HOME: $**TBD**
	Description	The Critical Home Repair program (CHR) is a one-lime home preservation service that offers interior and exterior repairs designed to assist homeowners living in a single-family home or mobile home secured to the permanent foundation as their primary residence within the City limit of Moreno Valley. The interior repairs consist of electrical, plumbing, flooring, wall repairs, kitchen repairs, termite work, air conditioning, insulation, bath repairs, heating and furnaces, ceiling repairs, etc. The exterior maintenance includes replacement or repairs of roofing, house trims, siding, awnings, steps, entrance, door, windows, porch deck, handicap access ramps, weatherization, tree removal, and any other maintenance to ensure health, safety and code enforcement compliance.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	15 households assisted
	Location Description	15 households will be assisted throughout the citywide

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

		limits.
	Planned Activities	Units will be rehabilitated to ensure health, safety, and code enforcement compliance. These may include activities to repair or replace the interior or exterior electrical, plumbing, floor, roof, etc.
5	**Project Name**	NHSIE BUILDING BLOCKS: MORENO VALLEY
	Target Area	Target Area(s)
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	HOME: $**TBD**
	Description	NHSIE's Build Blocks is a rental and homeownership development for low-moderate residents in Moreno Valley.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	24 households assisted
	Location Description	TBD
	Planned Activities	Using the community land trust model, NHSIE will use HOME funds to acquire land in the city and for pre-development cost.
6	**Project Name**	ESG – PLANNING AND ADMINISTRATION
	Target Area	City Wide
	Goals Supported	Planning and Administration
	Needs Addressed	Planning and Administration

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Funding	ESG: $12,702
	Description	Comprehensive planning and administration of the ESG grant program.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	N/A
	Location Description	14177 Frederick St., Moreno Valley, CA 92552
	Planned Activities	Administration of the ESG program including project management, various reporting, research, environmental reviews, completion of the Annual Action Plan, preparation of the CAPER report, on-site monitoring, etc.
7	**Project Name**	REBUILD IE
	Target Area	Citywide
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	ESG: $**TBD**
	Description	The purpose of NHSIE's Rebuild IE initiative is to support residents achieve housing stability.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	200 Persons Assisted
	Location Description	Citywide
	Planned Activities	Through education courses, 1-1 counseling and financial assistance the residents of Moreno Valley will be

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

		introduced to a step-by-step process designed to equip them with the necessary tool to avoid eviction/homelessness and being a journey toward achieving the dream of homeownership.
8	**Project Name**	CDBG – PLANNING AND ADMINISTRATION
	Target Area	City Wide
	Goals Supported	Planning and Administration
	Needs Addressed	Planning and Administration
	Funding	CDBG: $395,804
	Description	Comprehensive planning and administration of the CDBG grant program.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	N/A
	Location Description	14177 Frederick St., Moreno Valley, CA 92552
	Planned Activities	Administration of the CDBG program including project management, various reporting, research, environmental reviews, completion of the Annual Action Plan, preparation of the CAPER report, on-site monitoring, etc.
9	**Project Name**	BUILDING UP LIVES FOUNDATION – FREE MARKET PROJECT WITH COMMUNITY FOOD BOOTHS
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Description	The Free-Market Project will be monthly at a central location to add additional products to include but not limited to personal hygiene, cleaning products, food items, and clothing.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	2,500 Persons Assisted/Month
	Location Description	Central location
	Planned Activities	The Free-Market Project will be monthly at a central location to add additional products to include but not limited to personal hygiene, cleaning products, food items, and clothing.
10	**Project Name**	FAMILY SERVICES ASSOCIATION – SENIOR NUTRITION PROGRAM
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	Family Service Association (FSA) Senior Nutrition Program provides seniors with one nutritionally balanced meal Monday- Friday.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	435 Persons Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	Services will be provided by the Family Services Association primarily located at the City of Moreno Valley Senior Center.
	Planned Activities	Family Service Association (FSA) Senior Nutrition Program provides seniors with one nutritionally balanced meal Monday - Friday at the Moreno Valley Senior Center. Meals are also provided through an in- home delivery service to seniors who are unable to the center because of illness, disability, or lack of transportation
11	**Project Name**	JUNIOR LEAGUE OF RIVERSIDE - DIAPER BANK OF THE INLAND EMPIRE
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	The Diaper Bank of the Inland Empire provides diapers/wipes to Riverside and San Bernardino County families with limited access to basic needs.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	122 Persons Assisted
	Location Description	TBD
	Planned Activities	The Diaper Bank of the Inland Empire provides diapers/wipes to Riverside and San Bernardino County families with limited access to basic needs.
12	**Project Name**	MORENO VALLEY SHERIFF'S DEPARTMENT – POP & CSU TARGETED COMMUNITY BENEFIT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Target Area	Target Areas
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	The CDBG grant funds will be used to provide added enforcement support through overtime hours worked in the CDBG target areas.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	TBD
	Location Description	The service area for the project will be the designated CDBG areas within the city of Moreno Valley
	Planned Activities	The overall purpose is to reduce crime within the areas, remove blighted conditions, and improve quality of life for the community. The officers will acquaint themselves with the apartment managers and residents and will work closely with them to forge improved relations and reduce crime. Furthermore, funding will used for overtime to provide training for the Citizens Patrol and Volunteer/Explorer Programs.
13	**Project Name**	RIVERSIDE AREA RAPE CRISIS CENTER – BUILDING SAFE COMMUNITIES
	Target Area	CDBG Target Areas
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Description	Riverside Area Rape Crises Center (RARCC) Safe Communities Project is a community outreach program to promote health and wellness within families and eliminate the prevalence of gender-based violence in low-to-moderate income communities. Program objectives have additionally been expanded to include gender-based violence prevention, family resiliency, and the ending of generational cycles of trauma.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	2,600 Persons Assisted
	Location Description	Program delivery will be accomplished through community-based workshops and presentations at Moreno Valley partner sites.
	Planned Activities	Riverside Area Rape Crises Center (RARCC) Safe Communities Project is a community outreach program to promote health and wellness within families and eliminate the prevalence of gender-based violence in low-to-moderate income communities. Program objectives have additionally been expanded to include gender-based violence prevention, family resiliency, and the ending of generational cycles of trauma.
14	**Project Name**	FRIENDS OF MORENO VALLEY SENIOR CENTER – MOVAN SENIOR TRANSPORTATION PROGRAM
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Description	MoVan is a transportation van for twelve passengers plus 2 wheelchairs, provided Monday through Friday. The MoVan is a safe, convenient form of transit service specially designed to meet mobility needs of Moreno Valley seniors 60 years or older and disabled adult residents
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	180 Persons Assisted
	Location Description	Rides will be offered citywide.
	Planned Activities	MoVan transports curb-to-curb to our Senior Community Center as well as to medical/dental/optical appointments, grocery shopping, food distribution pickups and professional service appointments
15	**Project Name**	BEAUTIFUL MINDS YOUTH ENTREPRENEURSHIP & EMPLOYMENT
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	Assist with removing the red tape and educational hurdles our young entrepreneurs and employment seekers are challenged with when trying to jump start their future in business and employment goals. BME is beneficial serving the community by empowering youth with knowledge that will allow them to become self-sufficient and capable of living a quality lifestyle. Training

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

		15-30 students in 12-week blocks.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	90-120 Persons Assisted
	Location Description	TBD
	Planned Activities	Assist with removing the red tape and educational hurdles our young entrepreneurs and employment seekers are challenged with when trying to jump start their future in business and employment goals. BME is beneficial serving the community by empowering youth with knowledge that will allow them to become self-sufficient and capable of living a quality lifestyle. Training 15-30 students in 12-week blocks.
16	**Project Name**	WEECARE INC – BOOST (BUSINESS OPERATION & OPTIMIZATION SUPPORT TOOLS)
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	WeeCare's BOOST program provides technical assistance and business support to childcare providers who run home daycares.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	1,102 Persons Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	TBD
	Planned Activities	WeeCare's BOOST program provides technical assistance and business support to childcare providers who run home daycares.
17	**Project Name**	ASSISTANCE LEAGUE OF RIVERSIDE – OPERATION SCHOOL BELL
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	Operation School Bell is a program provided to elementary, middle, and high school students with a goal of assisting them in removing barriers to learning. The program provides new school clothes and dental kits to homeless and economically disadvantaged children.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	375 Persons Assisted
	Location Description	Operation School Bell is available to students attending a school in the Moreno Valley School District, as well as students in the Val Verde School District who reside in Moreno Valley.
	Planned Activities	The program provides new school clothes and dental kits to homeless and economically disadvantaged children.
18	**Project Name**	OPERATION SAFE HOUSE – EMERGENCY SHELTER FOR YOUTH
	Target Area	Citywide

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	Direct services will be provided to youth who enter the emergency shelter.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	20 Persons Assisted
	Location Description	Services will be provided to run away, homeless, at-risk youth and their families from the city of Moreno Valley by Operation Safehouse primarily located at 9685 Hayes Street, Riverside, CA.
	Planned Activities	Direct services will be provided to youth who enter the emergency shelter.
19	**Project Name**	VOICES FOR CHILDREN – COURT APPOINTED SPECIAL ADVOCATE (CASA) PROGRAM
	Target Area	Citywide
	Goals Supported	Public Services Activity
	Needs Addressed	Public Services Activity
	Funding	CDBG: $**TBD**
	Description	Voices for Childrens Court Appointed Special Advocate (CASA) program addresses the needs of abused and neglected City of Moreno Valley youth in foster care by providing them with the comprehensive, individualized advocacy of a CASA volunteer in court and throughout the community.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	15 Persons Assisted
	Location Description	The CASA program services will be delivered directly to the youth throughout the city of Moreno Valley.
	Planned Activities	Voices for Childrens Court Appointed Special Advocate (CASA) program addresses the needs of abused and neglected City of Moreno Valley youth in foster care by providing them with the comprehensive, individualized advocacy of a CASA volunteer in court and throughout the community.
20	**Project Name**	FAIR HOUSING COUNCIL OF RIVERSIDE COUNTY – ANTI-DISCRIMINATION AND LANDLORD TENANT COUNSELING
	Target Area	Citywide
	Goals Supported	Public Service Activities
	Needs Addressed	Housing Discrimination
	Funding	CDBG: $**TBD**
	Description	The Fair Housing Council of Riverside County, Inc. (FHCRC) proposes to offer a full menu of fair housing services which affirmatively address and promote fair housing rights and obligations as defined and articulated under the Federal Fair Housing Act and the California State Law Enactments under the Rumford and Unruh Civil Rights Acts.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	4,000 Persons Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	Fair Housing Council of Riverside County is available to persons in the City of Moreno Valley.
	Planned Activities	The Fair Housing Council of Riverside County, Inc. (FHCRC) proposes to offer a full menu of fair housing services which affirmatively address and promote fair housing rights and obligations as defined and articulated under the Federal Fair Housing Act and the California State Law Enactments under the Rumford and Unruh Civil Rights Acts.
21	**Project Name**	NEIGHBORHOOD HOUSING SERVICES OF THE INLAND EMPIRE – PROJECT GROW: MORENO VALLEY
	Target Area	Citywide
	Goals Supported	Public Service Activities
	Needs Addressed	Housing Discrimination
	Funding	CDBG: $**TBD**
	Description	Project Grow is a program that will increase affordable housing supply, improve distressed neighborhoods, decrease blight and slums as well as provide housing stability to both potential renters and current homeowners. Project Grow includes NHSIE's ADU technical assistance program, led by a HUD certified counselor they'll walk homeowners through a step-by-step process to preserve their property by adding an additional unit on their property. NHSIE will encourage the homeowner to rent at a below market to support future renters.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	50 Persons Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	Citywide
	Planned Activities	Project Grow is a program that will increase affordable housing supply, improve distressed neighborhoods, decrease blight and slums as well as provide housing stability to both potential renters and current homeowners. Project Grow includes NHSIE's ADU technical assistance program, led by a HUD certified counselor they'll walk homeowners through a step-by-step process to preserve their property by adding an additional unit on their property. NHSIE will encourage the homeowner to rent at a below market to support future renters.
22	**Project Name**	CALIFORNIA DRUG CONSULTANTS, INC – INTEGRATED CARE REVITALIZATION PROJECT
	Target Area	Target Areas
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	CDBG: $**TBD**
	Description	This project is proposing the renovation of its existing 20-year Residential Care Facilities for the Elderly to better serve its 100% population of Elderly, many of whom are disabled, to provide more dignified living conditions. The proposed project will include renovations of the common areas and shared living spaces for all four of the existing on-site residential care facilities.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	128 Person Assisted

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Location Description	14265, 14295,14315,14345 Nason St, Moreno Valley, CA 92555
	Planned Activities	This project is proposing the renovation of its existing 20-year Residential Care Facilities for the Elderly to better serve its 100% population of Elderly, many of whom are disabled, in order to provide more dignified living conditions. The proposed project will include renovations of the common areas and shared living spaces for all four of the existing on-site residential care facilities.
23	**Project Name**	PAVEMENT REHABILITATION FOR VARIOUS LOCAL STREETS
	Target Area	Target Areas
	Goals Supported	Capital Improvement Activities
	Needs Addressed	Capital Improvement Activities
	Funding	CDBG: $**TBD**
	Description	This project will provide pavement rehabilitation for local streets within the City's HUD-CDBG target areas
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	This project will approximately assist 908 persons.
	Location Description	This project will potentially benefit City residents in the HUD-CDBG Low/Mod Census Tracts.
	Planned Activities	The project is to improve roadway infrastructure and extend the service life of street pavement while enhancing safety and aesthetic appearance of various communities within HUD CDBG target areas
	Project Name	GRID ALTERNATIVES – CITY OF MORENO VALLEY LOW-

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

24		INCOME ENERGY ASSISTANCE PROGRAM
	Target Area	Citywide
	Goals Supported	Housing and Neighborhood Improvement Activities
	Needs Addressed	Substandard Housing
	Funding	GRID Alternatives Inland Empire will install solar electric systems for eligible Moreno Valley, low-income homeowners earning no more than 80% of AMI.
	Description	CDBG: $**TBD**
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	40 Persons Assisted
	Location Description	Citywide
	Planned Activities	GRID Alternatives Inland Empire will install solar electric systems for eligible Moreno Valley, low-income homeowners earning no more than 80% of AMI.
25	**Project Name**	INLAND COMPASSION – MORENO VALLEY SANCTUARY
	Target Area	Target Area
	Goals Supported	Health, Safety, and Public Welfare
	Needs Addressed	Health, Safety, and Public Welfare
	Funding	CDBG: $**TBD**
	Description	The purpose of the Moreno Valley Sanctuary is to provide a safe and consistent place (gated and fenced parking lot with outdoor kitchen and restroom) for individuals to sleep in their vehicles. They will be able to sleep with less worry, use the restroom, cook food, build

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

		a camaraderie with the other residents, get needed supplies, and feel at home until they transition into a place they call home.
	Target Date	6/30/2024
	Estimate the number and type of families that will benefit from the proposed activities	60 Persons Assisted
	Location Description	TBD
	Planned Activities	The Moreno Valley Sanctuary will allow the city to get a better-unhoused count, provide case-management for housing placement, will transition 60 individuals into housing in one fiscal year.
26	**Project Name**	MARY ERICKSON COMMUNITY HOUSING – FIR-LASSELLE PERMANENT SUPPORTIVE -TRANSITIONAL HOUSING
	Target Area	Target Area
	Goals Supported	Homeless/Homelessness Prevention Activities
	Needs Addressed	Homeless/Homelessness Prevention Activities
	Funding	CDBG: $**TBD**
	Description	Applicant proposes to acquire two sets of vacant lots both privately and City-owned on Fir Ave (60 units). and Lasselle St. (52 units) for future 112 units of permanent supportive-transitional housing (PSH-T) for families, couples, individuals, and Moreno Valley College students at risk of homelessness. CDBG funds will be used for land acquisition and PSH-T in-take services.
	Target Date	6/30/2024

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

	Estimate the number and type of families that will benefit from the proposed activities	158 Persons Assisted
	Location Description	Applicant proposes to acquire two sets of vacant lots both privately and City-owned on Fir Ave (60 units). and Lasselle St. (52 units)
	Planned Activities	Applicant will turn-key project using innovative, significantly lower cost and rapid deployment construction method LifeArk to owner-operator non-profit, The Illumination Foundation (TIF). CDBG funds will be used for land acquisition and PSH-T in-take services.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND

AP-50 Geographic Distribution – 91.220(f)

Description of the geographic areas of the entitlement (including areas of low-income and minority concentration) where assistance will be directed.

The CDBG Target Areas consist of census tracts within the City that are qualified as having a population of 51% or more low to moderate income residents.

In February 2019, Notice CPD 19-02 was released to publicize the new Low and Moderate- Income Summary Data (LMISD), based on the 2015 America Community Survey (ACS). Commencing July 1, 2021, the City formally adjusted and adopted its Target Area Maps to reflect most recent data released.

Geographic Distribution

Target Area	Percentage of Funds
CDBG Target Area	32%
Citywide	68%

Table 56 - Geographic Distribution

Rationale for the priorities for allocating investments geographically.

When determining the geographic locations where Moreno Valley will allocate their investments, the city staff consider if the activity or program will physically be located within an already designated CDBG Target Area, and in line with whether the program will directly benefit the low-to- moderate income population in that area. Poverty levels act as a measure of need for an area, providing staff with insight on the state of the population within that area and allow City representative to fund services accordingly. City representative also take public demand into account, recommendations from other city departments (such as Capital Activities, or the Police Department), reports from CDBG subrecipients which track referrals and measure trends in service levels, recommendations of other local entities like the County partners (the Continuum of Care, Department of Social Services, local Housing Authority, Economic Development Agency) and local non-profits.

Discussion

Moreno Valley utilizes geographic distribution designations that further describe where the City will focus its programs. An activity can be designated as serving either: (1) 'Citywide", or (2) 'in the CDBG Target Areas'. "Citywide' is a designation used for programs that offer services to the entire community. Many public programs provide services to the entire City, the nature of these program services is often to exclusively serve low-to-moderate income persons. If a program is designated as 'CDBG Target Area' it is confined exclusively to the CDBG Target Area. In general, CDBG Target Areas typically include older sections of the City where much of the building stock and infrastructure is deteriorated or fails to meet current standards. Many structures need minor or major rehabilitation with some structures in need of extensive reconstruction. The areas lack adequate drainage systems, water lines, street lighting, and street improvements.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-55 Affordable Housing – 91.220(g)

Introduction

The City plans to utilize all programs available (whether City, County, State, or Federal) to meet the affordable housing needs of the community. For example, low-income households seeking multi-family rental opportunities will be assisted through the City's HOME and Neighborhood Stabilization (NSP) programs. HOME offers a variety of activities aimed at providing affordable housing opportunities. The NSP works exclusively to rehabilitate foreclosed or vacant properties in the community and convert them into affordable housing opportunities for the qualified low-income families.

One Year Goals for the Number of Households to be Supported	
Homeless	0
Non-Homeless	20
Special-Needs	0
Total	20

Table 57 - One Year Goals for Affordable Housing by Support Requirement

One Year Goals for the Number of Households Supported Through	
Rental Assistance	0
The Production of New Units	0
Rehab of Existing Units	20
Acquisition of Existing Units	0
Total	20

Table 58 - One Year Goals for Affordable Housing by Support Type

Discussion

Through the Housing Authority of the County of Riverside (HACR), the City can offer its residents affordable housing through the County's Public Housing programs. HACR administers and manages approximately 1,100 Section 8 properties and 66 Public Housing units in Moreno Valley.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-60 Public Housing – 91.220(h)

Introduction

The Housing Authority of Riverside County (HACR) addresses the public housing needs of the cities within Riverside County. The Public Housing Program is intended to provide decent, safe, and sanitary housing to low and moderate-income families, seniors, and persons with disabilities.

Actions planned during the next year to address the needs to public housing.

In FY 2021, HUD reported there were approximately 8,500 households who received housing choice vouchers countywide with approximately 1,000 for Moreno Valley residents who received Housing Choice Vouchers (or Section 8). All Voucher recipients were below 50% of the area median income and approximately 75% of the recipients were below 30% of the area median income. At the time the countywide Section 8 waiting list had approximately 68,000 families. Based on the large numbers of families waiting for Section 8 assistance, the City supports the HACR goal to: expand the supply of assisted housing by applying for additional rental vouchers via annual competitions for the U.S. Department of Housing and Urban Development (HUD) affordable housing funding available to Public Housing Authorities; improve the quality of assisted housing; leverage private or other public funds to create additional housing opportunities; and expand and promote self-sufficiency programs. The City will actively pursue opportunities for local affordable housing activities as well as non-housing public service programs that contribute to the overall affordable housing needs of the community and eases the financial burden of its struggling, low-income residents. To further collaborate, the City of Moreno Valley will continue to review the Riverside County Agency's Action Plan and monitor the affordable housing needs of the area. The City reviews proposed development sites, the comprehensive plan, and any proposed demolition or disposition of public housing developments.

Actions to encourage public housing residents to become more involved in management and participate in homeownership.

The Riverside County Housing Authority encourages public housing residents to become more involved in management and to participate in homeownership opportunities through its Public Housing Resident Initiatives (PHRI). The Riverside County Housing Authority seeks to facilitate the successful transition of residents from public housing residency to economic independence and/or from welfare-dependence to increased earning capacity or sustained work. This Initiative builds upon the efforts of the local welfare plan and other self-sufficiency efforts of the Housing Authority and targets public housing residents who are receiving welfare assistance. The goals of the PHRI are to reduce welfare dependence by assisting residents in returning to the work force in a job commensurate with their abilities; reduce poverty by assisting residents in increasing their self-sufficiency by enhancing their employment or earning potential; and to increase homeownership among public housing residents. Local partners including public agencies and community-based nonprofits, as well as faith-based organizations provide self-sufficiency services including job training, employment opportunities, computer instruction, etc. The Family Self Sufficiency (FSS) Program was established to assist Section 8 residents and enable families to

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

gain economic independence from all governmental assistance. Supportive services offered to participating families include:

- Remedial Education and Classroom Training
- Employment Training and Placement
- Counseling/Case Management
- Credit Counseling and Money Management
- Child Care
- Transportation

The Housing Authority has also established a "Homeownership Program" (HP). The HP assists eligible participants in the Section 8 program, who are also participants of the Family-Self Sufficiency Program (FSS) by offering a single down payment assistance grant. To maximize the use of resources available to home seekers, the Housing Authority program also targets families who take part in the Riverside County Economic Development Agency's (EDA) First Time Home Buyer Program (FTHB). In combination, the HP/FTHB partnership enables families to realize their dream of becoming homeowners by providing them with financial assistance and other resources that they would not normally have access to.

If the PHA is designated as troubled, describe the way financial assistance will be provided or other assistance.

Not applicable.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-65 Homeless and Other Special Needs Activities – 91.220(i)

Introduction

The of the City's highest priorities for the use of grant funds is to address the emergency shelter and housing needs of homeless persons. In the coming year, Moreno Valley will continue to dedicate funding toward homeless services. The City will assist homeless persons with emergency vouchers and other critical support funded through partnership with homeless service providers. It will also continue to subsidize affordable housing development that offers long-term affordable housing opportunities. With the added Emergency Solutions Grant (ESG) entitlement funding, Moreno Valley will offer programs that will help quickly house homeless individuals and prevent loss of housing for those at risk of becoming homeless.

Describe the jurisdictions one-year goals and actions for reducing and ending homelessness including:

Reaching out to homeless persons (especially unsheltered persons) and assessing their individual needs.

In line with the HUD requirements, the City has developed a comprehensive Homeless Strategy that involves reaching out to homeless persons, assessing, and addressing their individual emergency/ housing needs. To reach these individuals, the City extends CDBG funding to a variety of public service subrecipients who in turn provide the direct services including street outreach, case management, housing search assistance, emergency housing/motel vouchers, food, and counseling. These social service programs are often the primary source for referrals and assistance to homeless persons. Most of the homeless population become aware of available programs through word of mouth and seek out services by calling the service provider or traveling to their local office. The City will also provide funds for reporting homelessness assistance through the Riverside County's Homeless Management Information System (HMIS).

Riverside County has worked with the chronic homeless population for several years through the Mental Health Homeless Intervention Team (HIT) program. The HIT Team actively seeks out homeless persons, throughout Riverside County, who are living on the streets and/or in unsheltered locations. The teams focus on areas of high homeless concentration. Support workers are trained to recognize symptoms of mental illness and substance abuse. Support workers also possess the interpersonal skills necessary to solicit and provide information in a friendly, respectful, non-threatening manner. They are familiar with various community resources that serve the homeless population, both public and private. At a minimum, all homeless persons contacted on the streets are provided with information and referrals to programs relevant to their needs. Once the chronic homeless persons have been identified, and if mentally ill and willing to participate, they are enrolled into a series of programs by the Department of Mental Health.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Addressing the emergency shelter and transitional housing needs of homeless persons.

Addressing the housing needs of the homeless is the primary objective of the ESG program and one of the City's highest priorities for the use of CDBG public service dollars. ESG funding will be allocated to address the emergency shelter and housing needs of homeless persons located in Moreno Valley. The City's ESG program allocation will be used to leverage the homeless prevention efforts originally initiated by CDBG. However, ESG will provide additional funding that will be used to assist, protect, and improve living conditions for the homeless and provide for the following eligible activities:

- Outreach to homeless individuals and families living on the street.
- Improve the number and quality of emergency shelters for homeless individuals and families.
- Help operate these shelters.
- Provide essential services to shelter residents.
- Rapidly re-house homeless individuals and families.
- Prevent families/individuals from becoming homeless.

Helping homeless persons (especially chronically homeless individuals and families, families with children, veterans and their families, and unaccompanied youth) make the transition to permanent housing and independent living, including shortening the period of time that individuals and families experience homelessness, facilitating access for homeless individuals and families to affordable housing units, and preventing individuals and families who were recently homeless from becoming homeless again.

The City of Moreno Valley will continue to engage with systems that assists efforts for persons and families to transition to permanent housing and independent living through a variety of resources involving the continued partnerships and financial support to local nonprofit service providers and participation and support to the Riverside County Continuum of Care. Additionally, the Riverside County's Department of Public Social Services (DPSS) is considered the "umbrella" anti-poverty agency for the region. The goal of self-sufficiency for persons can be accomplished by moving poor families out of poverty. DPSS interacts with needy residents on many levels, and assists them through childcare, education, employment, training, health and human services, homelessness, and housing with available mainstream programs.

Helping low-income individuals and families avoid becoming homeless, especially extremely low-income individuals and families and those who are: being discharged from publicly funded institutions and systems of care (such as health care facilities, mental health facilities, foster care and other youth facilities, and corrections programs and institutions); or, receiving

assistance from public or private agencies that address housing, health, social services, employment, education, or youth needs.

The Riverside County CoC has a standing six-year cooperative agreement between various key organizations and agencies that establish county-wide protocols and procedures intended to prevent people from being discharged from public and private institutions (programs) into homelessness. The agreement includes County Mental Health, Veterans, Sheriff's, and Children's Services Independent Living Program, as well as the Southern California Hospital Association, and administrators of the 2-1-1 telephone referral program, Community Connect of Riverside County. With the services made available via ESG funding, Community Connect and other partners can formally register its programs to ensure that the public is referred to appropriate ESG services, among others. City public service providers assists those threatened with homelessness by providing referrals and coordinating with other agencies to locate assistance for the family or individuals. Additionally, Moreno Valley dedicates ESG entitlement funding toward homeless prevention and rapid-re-housing efforts.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-75 Barriers to affordable housing – 91.220(j)

Introduction

As a condition of receiving federal funding for the CDBG and HOME programs, cities must certify that it will affirmatively further fair housing as required by the Fair Housing Act. The Act includes policies that ensure that persons are not denied equal opportunities in connection with housing because of their race, color, national origin, religion, disability, sex, or familial status. In compliance, prior to the start of each Consolidated Plan period, Moreno Valley prepares an Analysis of Impediments (AI) to Fair Housing Choice Report. As part of the report, the City of Moreno Valley is required to:

1. Conduct an analysis to identify impediments to fair housing choice within the jurisdiction.

2. Take appropriate actions to overcome the effects of any impediments identified through that analysis; and Maintain records reflecting the analysis and actions in this regard. The AI is a review of impediments or barriers that affect the rights of fair housing choice and serves as a basis for fair housing planning. It provides detailed information to policy makers, administrative staff, housing providers, lenders, and fair housing advocates to assist in building public support for fair housing efforts. In FY 2023-24 the city updated its AI.

Actions it planned to remove or ameliorate the negative effects of public policies that serve as barriers to affordable housing such as land use controls, tax policies affecting land, zoning ordinances, building codes, fees and charges, growth limitations, and policies affecting the return on residential investment.

Key components that the city will engage in to ameliorate and/or remove barriers to affordable housing as follows:

- When feasible, consider reducing, waiving, or deferring development fees to facilitate the provision of affordable housing.
- Periodically review and revise City development standards to facilitate quality housing that is affordable to lower and moderate-income households.
- Monitor all regulations, ordinances, departmental processing procedures and fees related to the rehabilitation and/or construction of dwelling units to assess their impact on housing costs.
- Ensure that water and sewer providers are aware of the City's intentions for residential development throughout the City.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

AP-85 Other Actions – 91.220(k)

Introduction

Following is a summary of critical components of 'other' necessary actions for the upcoming Consolidated Plan year, including how the City plans to overcome obstacles to meeting underserved needs, create plans to foster and maintain affordable housing, plans to reduce lead-based paint hazards, to reduce the number of poverty-level families, develop institutional structure, and actions planned to enhance coordination between public and private housing and social service agencies.

Actions planned to address obstacles to meeting underserved needs.

The primary obstacle in meeting the needs of underserved communities underserved (low-income families, seniors, homeless, etc.) is the lack of funding available to local public and private agencies. The economic downturn resulted in a decline in federal funding and the elimination of Redevelopment agencies and the associated tax increment/housing set-aside funding. It has also resulted in a decline in funding donations to local non-profits. This loss in revenue has not been fully overcome; however, staff can take the following actions in efforts to address the needs of the City's underserved communities, effectively:

1) Continue to establish partnerships with other agencies to better prioritize and utilize resources, conduct more detailed research and citizen participation each year to prioritize the needs of the underserved, seek out additional resources, and apply for grants where there are opportunities.
2) Formally adjust the programs Objectives and Policies to reflect the updated prioritization and allocate accordingly; even if it means shifting away from what's been historically funded. Create new programs/temporary emergency programs to address urgent issues.
3) Work hand in hand with subrecipients to adjust budgets, services, and restructure programs to better fit the needs of the underserved.

Actions planned to foster and maintain affordable housing.

Homeownership opportunities for low-income households was made available through the City's Single Family Residential Acquisition, Rehabilitated, and Resale (SFR-ARR) component of the Neighborhood Stabilization Program. To date, over 91 affordable single-family units have been rehabilitated for qualified lower-income families. The City of Moreno Valley's affordable housing portfolio includes 29 different multi-family rental activities expected to provide 1,643 low and moderate-income families with affordable housing during FY 2021-22. Lastly, through the Housing Authority of the County of Riverside (HACR), the City is also able to offer its residents affordable housing through the County's Public Housing programs. HACR administers and manages approximately 86 Section 8 properties in Moreno Valley.

Actions planned to reduce lead-based paint hazards.

City Housing Programs

Due to funding cuts, the City had temporarily discontinued three of its consumer loan programs that were impacted by the requirements of lead-based paint disclosure. However, Moreno Valley was able to reinstate the Mobile Home Repair Program and add a Single-Family Home Repair program. Habitat for Humanity, Riverside applied for and has been contracted to administer this HOME funded program. All homeowners participating in this grant program receive a copy of the "Protect Your Family from Lead in Your Home," a lead-based paint disclosure booklet, and are asked to sign an acknowledgment that is included in the loan application. If the unit was constructed after 1978, an exemption form is prepared and placed in the project file. If the home was constructed prior to 1978, Envirocare Consulting, Inc. is subcontracted to provide a lead-based paint inspection and risk assessment of the property. If the property is found to contain lead-based paint, mitigation measures are incorporated as a part of the revitalization work.

Countywide Lead Hazard Control Program

While the City of Moreno Valley does not currently have a stand-alone lead prevention program, the City will continue to work closely with the County of Riverside to address these issues. The County has adopted a regional strategy to control lead hazards. The County's strategy thoroughly spells out the control methods used once lead based paint hazards have been identified. It also describes its typical public outreach efforts which include: the distribution of bilingual educational brochures, public presentations, informational booths at the mall and community events, immunization clinics, testing within Target Areas, use of public media for outreach, as well as a "Free Testing Program."

Actions planned to reduce the number of poverty-level families.

The City strives to reduce the poverty rates of the city's population and neighborhoods.

Specific actions to reduce poverty are described below:

Provide Job Skills Training to Persons Living in the R/ECAP: The City can fund activities that provide jobs skills training to unemployed persons living in the R/ECAP. A key poverty reducing strategy is to provide appropriate technical education and training to low wage workers and unemployed workers in the labor force.

Increase Participation in Poverty Reducing Programs by Persons Living in the R/ECAP: The City will work to inform families living in the R/ECAP of poverty reducing programs such as the Earned Income Tax Credit (EITC). Research has demonstrated that increasing participation in safety net programs helps to reduce poverty rates.

Provide Job search and Placement Services to Low Wage and Unemployed Workers Living in the R/ECAP and High Poverty Neighborhoods: Annually, the city's Business Employment Resource Center (BERC) can provide job seekers with access to resources that are necessary to search and acquire employment within the city and surrounding areas. Assistance will be provided with preparing resumes, job applications and job searches as well as one-on-one mock interviews.

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Policies to reduce the number of poverty-level families include:

- Anti-Poverty Policy #1: To continue to support and coordinate with public and private efforts aimed at preventing and reducing poverty level incomes.
- Anti-Poverty Policy #2: To conduct outreach with public and private agencies whose mission is to reduce poverty level incomes.
- Anti-Poverty Policy #3: Allocate CDBG public service funds to projects and activities that will help persons and families who have incomes below the poverty level.

Actions planned to develop institutional structure.

The City of Moreno Valley benefits from a solid institutional structure and relationships with various local public and private agencies. The City will continue to work at strengthening its dialogue with Riverside County agencies such as the Departments of Mental Health and Public Social Services, specifically to address regional homeless issues, and staff will continue to serve on the Continuum of Care Consortium which provides opportunities to work with local public and non-profit agencies. The City will maintain open dialogue with the Riverside County Housing Authority and focus on the use of resident initiatives in public housing. The City helped form a Non-Profit Coalition in efforts to increase collaboration amongst service providers and better meet the needs of the community and shall continue to support their efforts. The City will remain a member of the March Joint Powers Authority, created for the repurposing of the March Air Reserve Base. Additionally, the City will continue to coordinate with all the local Chambers of Commerce, as well as administer the Business Roundtables, and Nonprofit Roundtables which encourage communication with professionals from a variety of industries including health care, transportation, education, and other local businesses.

Actions planned to enhance coordination between public and private housing and social service agencies.

The City's goal is to continue to establish collaborative relationships between governmental and social service agencies to assure the effective delivery of services to low-income individuals by maintaining open communication with sub-recipients and other consolidated planning partners; Utilizing technology to share, distribute information, foster and maintain constant contact with community planning partners; and Recommending and participating in committees aimed at filling gaps where they exist.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Program Specific Requirements

AP-90 Program Specific Requirements – 91.220(l)(1,2,4)

Introduction:

Community Development Block Grant Program (CDBG)
Reference 24 CFR 91.220(l)(1)

Projects planned with all CDBG funds expected to be available during the year are identified in the Projects Table. The following identifies program income that is available for use that is included in projects to be carried out.

1. The total amount of program income that will have been received before the start of the next program year and that has not yet been reprogrammed.	0
2. The amount of proceeds from section 108 loan guarantees that will be used during the year to address the priority needs and specific objectives identified in the grantee's strategic plan.	0
3. The amount of surplus funds from urban renewal settlements.	0
4. The amount of any grant funds returned to the line of credit for which the planned use has not been included in a prior statement or plan.	0
5. The amount of income from float-funded activities	0
Total Program Income	0

Other CDBG Requirements

1. The amount of urgent need activities	0
2. The estimated percentage of CDBG funds that will be used for activities that benefit persons of low and moderate income. Overall Benefit - A consecutive period of one, two or three years may be used to determine that a minimum overall benefit of 70% of CDBG funds is used to benefit persons of low and moderate- income. Specify the years covered that include this Annual Action Plan.	70%

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

HOME Investment Partnership Program (HOME)
Reference 24 CFR 91.220(l)(2)

1. **A description of other forms of investment being used beyond those identified in Section 92.205 is as follows:**
   Not applicable. The City does not intend to use HOME funding beyond those noted in Section 92.205.
2. **A description of the guidelines that will be used for resale or recapture of HOME funds when used for homebuyer activities as required in 92.254, is as follows:**
   The City normally engages in HOME funded rehabilitation and rental activities not homebuyer activities. However, when homeownership programs were developed under the NSP 3 program, leveraged with HOME, the City ensured that Resale or Recapture Requirements were integrated directly into the Affordable Housing Agreement with the development partner. The requirements were delineated within the Conditions, Covenants, and Restrictions (CC&R) in detail and in accordance with 92.254.
3. **A description of the guidelines for resale or recapture that ensures the affordability of units acquired with HOME funds. See 24 CFR 92.254(a)(4) are as follows:**
   Not applicable. The City does not plan to engage in HOME funded acquisition of single-family units as described in 24 CFR 92.254(a)(4).
4. **Plans for using HOME funds to refinance existing debt secured by multifamily housing that is rehabilitated with HOME funds along with a description of the refinancing guidelines required that will be used under 24 CFR 92.206(b), are as follows:**
   Not applicable. The City has no plans to refinance existing debt secured by multifamily housing rehabilitated with HOME funds during the upcoming program year FY 2023-2024.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Emergency Solutions Grant (ESG)
Reference 91.220(l)(4)

1. **Include written standards for providing ESG assistance (may include as attachment)**
   Per grant requirements, the ESG standards include:

   1. Standard policies and procedures for evaluating individuals and family's eligibility for assistance under ESG.
   2. Policies and procedures for determining and prioritizing which eligible families and individuals will receive homelessness prevention assistance and which eligible families and individuals will receive rapid re-housing assistance.
   3. Policies and procedures for coordination among emergency shelter providers, essential service providers, homelessness prevention and rapid re-housing assistance providers and mainstream service and housing providers.
   4. Standards for determining the share of rent and utilities cost that each program participant must pay, if any, while receiving homeless prevention and rapid re-housing assistance.
   5. Standards for determining how long a program participant will be provided with rental assistance and whether the amount of that assistance will adjust over time.
   6. Standards for determining the type, amount, and duration of housing stabilization and/or relocation services to provide a program participant, including the limits, if any, on the homelessness prevention or rapid re-housing assistance that each program participant may receive, such as the maximum amount of assistance, maximum number of months the program participant receives assistance, or the maximum number of times the program participant may receive assistance.
2. **If the Continuum of Care has established centralized or coordinated assessment system that meets HUD requirements, describe that centralized or coordinated assessment system.**
   The McKinney-Veto Homeless Assistance Act requires that communities operate a Continuum of Care (CoC) program designed to assist homeless persons with housing and/or services with the goal of long-term stability. Riverside County's Department of Public Social Services (DPSS) has been the lead agency in coordinating the CoC including securing membership and ensuring that CoC's various legal responsibilities are met. Current members include the County, various entitlement cities, non-profit/service providers, homeless persons, and members of the public. As a collaborative, the group must assess the needs of the areas homeless and affordable housing needs then develop a regional plan to address them. They also promote a community-wide commitment to ending homelessness, provide for funding for local efforts to address homelessness, and promote effective use of mainstream programs, including designing and operating a software system called the Homeless Management Information System (HMIS) intended to minimize duplication of services.

   Due to changing demographics, Moreno Valley is now a direct recipient of ESG entitlement funding. Upon notification of award, the City understood that CoC Consultation was an ESG grant requirement. To comply, Moreno Valley consults with the CoC by sharing ESG funding recommendations issued at the City level and requesting feedback from the full CoC membership.

3. **Identify the process for making sub-awards and describe how the ESG allocation available**

to private nonprofit organizations (including community and faith-based organizations).
The ESG sub-awards proposed as part of this FY 23-24 Annual Action Plan were selected via the standard annual application process along with the City's CDBG and HOME programs. The City's competitive process includes required public notifications and issuance of a Notice of Funding Availability (NOFA). In efforts to reach as many applicants as possible the City advertised in local publication of general circulation, online, via social media, and through e-mail blasts to interested parties. Moreno Valley also offered an on-line application workshop aimed at providing program information and application assistance. Applications were due January 31, 2023. The efforts resulted in the City receiving one (1) ESG application requesting a total $39,990. As part of the application process, in preparation of the Action Plan, the City contracted a third party to collaborate with City Staff as the Technical Review Committee for review of the ESG applications. Each application was reviewed two times, once for completeness and HUD eligibility and once for completion of the City's formal evaluation form. Return applicant's prior performance in terms of meeting their established goals, expenditure and administrative requirements were evaluated with the input of City's grant management staff. The applications received by the Technical Review Committee were presented to the City Council at a Public Hearing held on April 18, 2023. In line with the City's policies and objectives, the final project selections shall be made by the City Council via final Public Hearings.

4. **If the jurisdiction is unable to meet the homeless participation requirement in 24 CFR 576.405(a), the jurisdiction must specify its plan for reaching out to and consulting with homeless or formerly homeless individuals in considering policies and funding decisions regarding facilities and services funded under ESG.**
The homeless requirements under 24 CFR 576.405(a) and 91.220 (1)(4) (iv) indicate that the City's policy making entity must have at least one homeless or formerly homeless individual on its panel. The City contends that it has met the homeless participation requirement via the consultation process with the CoC. The CoC has a member who is formally homeless and an active participant.

5. **Describe performance standards for evaluating ESG.**
The City shall work with the one (1) ESG subrecipient to form the appropriate performance standards customized for the specific ESG activity being carried out. These agreed upon standards will be consistent with ESG regulations, the City's 2018-2023 Consolidated Plan, and the adopted ESG written standards. The ESG performance standards shall be included in the subrecipient's FY 23-24 grant agreement. Because ESG is a newer program for Moreno Valley, the City fully expects that the performance standards will evolve over time. For now, the City shall continue to consult with the CoC members to discuss the ESG program including performance standards.

DRAFT

Attachment: FY 23-28 ConPlan DRAFT v1.04.11.2023 (003) (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC COMMENT

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley

COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG)
HOME INVESTMENT PARTNERSHIPS PROGRAM (HOME)
EMERGENCY SOLUTIONS GRANTS PROGRAM (ESG)

FISCAL YEAR 2023/2024

APPLICATION REVIEW

Public Hearing
April 18, 2023

807 S. Lemon Ave.
Diamond Bar, CA 91789
T 909.895-7146
F 909.859.3881

www.agi.com.co

TABLE OF CONTENTS

I. OVERVIEW 2
THE FIVE-YEAR CONSOLIDATED PLAN 2
THE CITIZEN PARTICIPATION PLAN 2
THE ANNUAL ACTION PLAN 3
FY 2023/24 PROPOSED HOME, ESG AND CDBG OBJECTIVES AND POLICIES 3
FY 2023/24 APPLICATION PROCESS AND REVIEW 4
II. HOME INVESTMENT PARTNERSHIPS PROGRAM (HOME) 5
GRANT PURPOSE 5
FUNDING 5
APPLICATIONS 5
III. EMERGENCY SOLUTIONS GRANTS PROGRAM (ESG) 7
GRANT PURPOSE 7
FUNDING 7
APPLICATIONS 7
IV. COMMUNITY DEVELOPMENT BLOCK GRANT (CDBG) 9
GRANT PURPOSE 9
FUNDING AND LIMITATIONS 9
CDBG PUBLIC SERVICE – LIMITED TO 15% 10
CDBG OTHER ACTIVITIES - 65% (REMAINING ALLOCATION) 13
V. FISCAL YEAR 2023/24 APPLICANTS PROGRAM DESCRIPTIONS 15

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

OVERVIEW

Historically, the City of Moreno Valley (the "City") has received federal funding on an annual basis from the Department of Housing and Urban Development (HUD) for two formula block grant programs: Community Development Block Grant (CDBG) and HOME Investment Partnerships Program (HOME). Since Program Year 2013/14, the City has become a direct recipient of Emergency Solutions Grants Program (ESG) funds.

Descriptions of each formula block program (HOME, ESG and CDBG) can be found in Sections II, III, and IV of this report.

The following subsections provide an overview of the Five-Year Consolidated Plan, The Citizen Participation Plan, The Annual Action Plan, Objectives and Policies, and the Fiscal Year (FY) 2023/24 Application Process and Review.

The Five-Year Consolidated Plan

Every five years, the City of Moreno Valley prepares a Five-Year Consolidated Plan (ConPlan), which describes community needs, resources, priorities, and proposed activities to be undertaken under certain HUD programs, including, HOME, ESG and CDBG that benefit low and moderate-income households and neighborhoods.

The proposed ConPlan for Fiscal Years 2023/24 through 2027/28, outlines the following goals and strategies:

Substandard Housing Strategy

Homelessness Strategy

Public Facilities and Improvements Strategy

Public Services Program Strategy

Housing Discrimination Strategy

Economic Development Strategy

Planning and Administration Strategy

The Citizen Participation Plan

The City has developed a Citizen Participation Plan (CPP) as a part of the ConPlan that sets forth the policies and procedures to encourage citizen's participation in the HOME, ESG and CDBG Program planning and implementation processes. This CPP provides the method and process by which the City will encourage citizen participation in the development of its ConPlan.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

A copy of the City's Citizen Participation Plan is available for inspection at the Financial & Management Services Department during normal business hours.

The Annual Action Plan

Each year in May, the City of Moreno Valley is required to submit an update to the ConPlan to HUD, referred to as an Annual Action Plan (AAP). The AAP outlines the specific steps that will be taken during the year to address both the community development and housing priorities of the ConPlan. The AAP identifies how the HOME, ESG and CDBG Program funds will be utilized to provide programs and projects that benefit low and moderate-income households and neighborhoods.

A copy of the City's AAP for prior program years is available for inspection at the Financial & Management Services Department during normal business hours and is available on the City's website at www.moval.org.

FY 2023/24 Proposed HOME, ESG and CDBG Objectives and Policies

The City's Objectives for the HOME, ESG and CDBG programs are summarized below (*listed alphabetically*) and additional detail can be found in the application booklet:

Capital Improvement Activities

Economic Development Activities

Health, Safety, and Public Welfare Activities

Historic Preservation Activities

Homeless/Homeless Prevention Activities

Housing and Neighborhood Improvement Activities

Public Service Activities
Basic Needs Related to Social Services Programs (such as but not limited to emergency food, shelter (homelessness), and utility assistance)
Community Public Safety Programs
Programs offering Low-Cost Transportation
Employment Services/Programs and Job (Skills) Training
Free/Low-Cost programs for School-Aged Youth
Fair Housing Activities

Slum or Blight Activities

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

FY 2023/24 Application Process and Review

On December 15, 2022, the City published Notice of Funding Availability (NOFA) for Fiscal Year 2023/24 Application for Funding for HOME, ESG and CDBG. According to the application guidelines, interested parties were informed to submit their completed applications by January 31, 2023, 5:00 pm. Programs and projects seeking funding from the City of Moreno Valley must address one or more of the Community Development Priorities set forth in the Five-Year Consolidated Plan, in addition to meeting all other conditions as summarized in the application booklet. A copy of the application booklet which provided additional information on the City's objectives and policies was made available on the City's website.

The City received twenty-two (22) eligible applications requesting a total $6,795,901. This report does not include information from any applications that were incomplete, withdrawn and/or deemed ineligible.

As part of the application process in preparation of the One-Year Action Plan, the City has contracted Avant-Garde Inc. ("AGI") to collaborate with City Staff and Officials, as the Technical Review Committee for the HOME, ESG and CDBG application proposals.

The applications received by the Technical Review Committee's will be presented at a Public Hearing scheduled on April 18, 2023. At this meeting, the City of Moreno Valley City Council will review and consider the proposed project applications. In line with the City's policies and objectives and the Citizen's Participation Plan, the final project selections will be made by the City Council via Public Hearing on May 16, 2023. The Annual Action Plan is scheduled to be submitted to HUD at least 45 days before the beginning of the program year.

The following sections of this report contain the received applications for FY 2023/24.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

Home Investment Partnerships Program (HOME) - $755,989

Grant Purpose

The Home Investment Partnerships Program was established by the Title II of the Cranston-Gonzalez National Affordable Housing Act. The objectives of the HOME Program include:

Expanding the supply of decent and affordable housing; primarily rental housing.

Strengthening the ability of state and local government to provide adequate supplies of decent, affordable housing.

Providing financial and technical assistance to participating jurisdictions, including the development of model programs for affordable low-income housing.

Extending partnerships among all levels of government and the private sector, including for-profit and non-profit organizations, in the production and operation of affordable housing.

Funding

Fiscal Year 2023/2024 Allocation	**HOME**
Planning and Administration Cap (10% of annual grant)	$75,599
Mandatory CHDO set-aside (15% of annual grant)	$113,398
Available for Other Activities	$566,992
TOTAL Approved Allocation	**$755,989**
TOTAL Uncommitted Prior Year HOME Funds	$1,953,951
TOTAL Estimated Available for Funding	**$2,709,940**

Applications

The City received three (3) HOME applications requesting a total of $2,155,118 in HOME funding, leaving uncommitted HOME funds of $365,825.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Application Review
HOME Investment Partnerships Program (HOME)

App. No.	Applicant	Program	Funding	Funding Type	City Priority	FY 22-23 Funding	Funding Requested FY 23-24
N/A	The City of Moreno Valley	Planning and Administration	HOME	HOME	N/A	$74,592	$75,599
1	Mary Erickson Community Housing, a Non-Profit Corporation	Eucalyptus Single Family Homes for Sale to 80% AMI, preference for US Veterans	HOME	HOME	Housing and Neighborhood Improvement Activities	N/A	$1,636,368
2	Habitat for Humanity Riverside	Critical Home Repair	HOME	HOME	Housing and Neighborhood Improvement Activities	$415,000	$318,750
3	Neighborhood Housing Services of the Inland Empire	NHSIE Building blocks: Moreno Valley	HOME	HOME	Housing and Neighborhood Improvement Activities	N/A	$200,000
					Totals		**$2,230,717**

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO

Emergency Solutions Grants Program (ESG) - $169,365

Grant Purpose

The Homeless Emergency Assistance and Rapid Transition to Housing Act of 2009 (HEARTH Act) amended the McKinney-Vento Homeless Assistance Act, revising the Emergency Shelter Grants Program in significant ways and renaming it the Emergency Solutions Grants Program. The City has received ESG program grant funds for 8 years. The decision to apply the American Community Survey (ACS) data to calculate HUD allocations made Moreno Valley eligible to receive ESG funds.

The ESG program is issued to assist, protect, and improve living conditions for the homeless. The program provides funding to:

Engage homeless individuals and families living on the street,

Improve the number and quality of emergency shelters for homeless individuals and families,

Help operate these shelters and provide essential services to shelter residents,

Rapidly re-house and provide essential services to shelter residents,

Prevent families/individuals from becoming homeless and provide essential services to those at risk of homelessness.

Funding

Fiscal Year 2023/2024 Allocation	**ESG**
Planning and Administration Cap (7.5% of annual grant)	$12,702
Available for Other Activities	$156,663
TOTAL Approved Allocation	**$169,365**
TOTAL Estimated Available for Funding	**$169,365**

Applications

The City received one (1) ESG application requesting a total of $39,990 in ESG funding, leaving uncommitted ESG funds of $116,673.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Application Review
Emergency Solutions Grants Program (ESG)

App. No.	Applicant	Program	Funding	Funding Type	City Priority	FY 22-23 Funding	Funding Requested FY 23-24
N/A	The City of Moreno Valley	Planning and Administration	ESG	ESG	N/A	$12,897	$12,702
4	Neighborhood Housing Services of the Inland Empire	Rebuild IE	ESG	ESG	Homeless/Homeless Prevention Services	N/A	$39,990
					Totals		**$52,692**

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

Community Development Block Grant (CDBG) - $1,979,019

Grant Purpose

The Community Development Block Grant (CDBG) Program is authorized by Title I of the Housing and Community Development Act of 1974, as amended. The primary objective of the CDBG program is to develop viable urban communities by providing decent housing, a suitable living environment, and expanded economic opportunities, principally for persons of low and moderate income.

The CDBG objective is to be achieved in two ways:

First, a grantee can only use funds to assist eligible activities that meet one of three national objectives of the program:

Benefit low- and moderate-income persons,

Aid in the prevention or elimination of slums and/or blight,

Meet community development needs having a particular urgency.

Second, at least 70 percent of funds must be spent (over a period of up to 3 years) for activities that address the national objective of benefiting low and moderate-income persons.

Funding and Limitations

Fiscal Year 2023/2024 Allocation	**CDBG**
Planning and Administration Cap (20% of annual grant)	$395,804
Public Services Cap (15% of annual grant)	$296,853
Available for Other Activities (65% of annual grant)	$1,286,362
TOTAL Approved Allocation *	**$1,979,019**
TOTAL Uncommitted Prior Year(s) CDBG Funds*	$421,191
TOTAL Available for Funding	**$2,400,209.69**

** The City may utilize prior-year uncommitted funds towards non-public service activities.*

CDBG Public Service – Limited to 15%

The City's Public Service priority ranking as approved by the Council is recapped below:

Priority 1: Basic Needs Related Social Services Programs (such as but not limited to emergency food and shelter (homelessness), abused children advocacy, and utility assistance)

Priority 2: Community Public Safety Programs

Priority 3: Programs offering Low-Cost Transportation

Priority 4: Employment Services/Programs and Job (Skills) Training

Priority 5: Free/Low-Cost programs for School-Aged Youth

Priority 6: Fair Housing Activities

According to the CDBG regulations, the amount of CDBG funds obligated within a program year to support public service activities may not exceed 15% of the annual program allocation. As a result, the City's Public Service projects for program year 2023/24 is limited to **$296,853.**

There was a total of thirteen (13) public service applications received totaling $949,895 exceeding the estimated available for funding by $653,042.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Application Review
Community Development Block Grant (CDBG)
Public Service

App. No.	Applicant	Program	Funding	Funding Type	City Priority	FY 22-23 Funding	Funding Requested FY 23-24
(1) Public Service - Basic Needs							
5	Building Up Lives Foundation	Free Market Project with Community Food Booths	CDBG	CDBG	Public Services	$20,000	$40,000
6	Family Services Association	Senior Nutrition Program	CDBG	CDBG	Public Services (Senior Services)	$20,000	$20,000
7	Junior League of Riverside	Diaper Bank of the Inland Empire	CDBG	CDBG	Public Services	N/A	$19,000
(2) Public Services - Community Public Safety Programs							
8	Moreno Valley Sheriff's Department	POP & CSU Targeted Community Benefit	CDBG	CDBG	Public Services (Crime Awareness/Prevention)	$40,878	$81,400
9	Riverside Area Rape Crisis Center	Building Safe Communities	CDBG	CDBG	Public Services (Crime Awareness/Prevention)	$15,000	$15,000
(3) Public Services - Low Cost Transportation							
10	Friends of Moreno Valley Senior Center	MoVan Senior Transportation Program	CDBG	CDBG	Public Services (Senior Services)	$70,000	$75,000

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO

App. No.	Applicant	Program	Funding	Funding Type	City Priority	FY 22-23 Funding	Funding Requested FY 23-24
(4) Public Services - Employment Services/Programs and Job (Skills) Training							
11	Davis Beautiful Minds Entrepreneurship, Inc	Beautiful Minds Youth Entrepreneurship & Employment	CDBG	CDBG	Public Services	N/A	$86,620
12	WeeCare, Inc.	BOOST (Business Operation & Optimization Support Tools)	CDBG	CDBG	Public Services	N/A	$432,000
(5) Public Services - Free/Low-Cost Programs for School-Aged Youth							
13	Assistance League of Riverside	Operation School Bell	CDBG	CDBG	Public Services (Youth Services)	$20,000	$35,000
14	Operation Safe House ,Inc.	Operation Safe House Emergency Shelter for Youth	CDBG	CDBG	Public Services (Youth Services)	$15,000	$15,000
15	Voices for Children	Court Appointed Special Advocate (CASA) Program	CDBG	CDBG	Public Services (Services for Abused and Neglected Children)	$30,000	$30,000
(6) Public Services - Fair Housing Activities							
16	Fair Housing and Landlord/Tenant	Anti-Discrimination and Landlord Tenant Counseling	CDBG	CDBG	Public Services (Fair Housing Activities)	$68,175	$70,875
17	Neighborhood Housing Services of the Inland Empire	Project Grow: Moreno Valley	CDBG	CDBG	Public Services (Fair Housing Activities)	N/A	$30,000

*Any additional funding not to exceed amount requested

Subtotal Public Services Activities **$949,895**

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO

CDBG Other Activities - 65% (Remaining Allocation)

After taking into account the limitations for CDBG Administration and Public Service Activities, the remaining allocation available to fund other activities was $1,286,362 not including $421,191 of uncommitted prior year CDBG funds**.** There was a total of five (5) applications received for other activities, totaling $3,650,898. The total requests exceeded the Fiscal Year 2023/24 estimated available for funding by over $1,950,898.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Application Review
Community Development Block Grant (CDBG)
Other-65% Funding

App. No.	Applicant	Program	Funding	Funding Type	City Priority	FY 22-23 Funding	Funding Requested FY 23-24
18	California Drug Consultants, Inc.	Integrated Care Revitalization Project	CDBG	CDBG	Housing and Neighborhood Improvement Activities	N/A	$237,000
19	City of Moreno Valley - Capital Projects Division	Pavement Rehabilitation for Various Local Streets	CDBG	CDBG	Capital Improvements	$1,202,565	$1,600,000
20	GRID Alternatives	City of Moreno Valley Low-Income Energy Assistance Program	CDBG	CDBG	Housing and Neighborhood Improvement Activities	$100,000	$100,000
21	Inland Compassion	Moreno Valley Sanctuary	CDBG	CDBG	Health, Safety, and Public Welfare Activities	N/A	$1,213,898
22	Mary Erickson Community Housing	Fir-Lasselle Permanent Supportive-Transitional Housing	CDBG	CDBG	Homeless/Homeless Prevention Activities	N/A	$500,000
					Totals		**$3,650,898**

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO

Fiscal Year 2023/24 Applicants Program Descriptions

Applicant's Program Descriptions for each application, as submitted by the applicants, can be found in the subsequent pages.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
HOME Investment Partnerships Program (HOME)
Applicant Program Description

Application Number: **1**
Funding: HOME

Applicant: **Mary Erickson Community Housing, a Non-Profit Corporation**
Program: **Eucalyptus Single Family Homes for Sale to 80% AMI, preference for US Veterans**

Requested Funding Amount:	**$1,636,368.00**
Total # Person Served:	31
MV # Person Served:	31
Funding per Person Served:	$52,786.06

Program Description:

Mary Erickson Community Housing, a Non-Profit Corporation (MECH) presents the new construction of seven (7) detached single family homes for sale to up to 80% Area Median Income (AMI) first time homebuyers with a preference for US Veterans and/other groups on the City-owned lot at Eucalyptus/Heacock. MECH proposes four (4), 3 bedroom, 2 bath, and three (3) 4 bedroom 2 bath with attached 2 car garage and front and back yards incorporating selected ADA adaptability, and energy efficient sustainability features. The total development budget is $3,498,000 and MECH requests $1,636,368 in HOME construction subsidy. Funds will be used for construction, development subsidies and down payment loan assistance for the homebuyers. The homes will have HOME and City affordability covenants for 45 years. At permanent financing, program will return ~$400K+ to the City or final City funding of $1,224,000. The project helps meet the City's RHNA goals and transforms a nuisance lot into the American Dream of homeownership.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
HOME Investment Partnerships Program (HOME)
Applicant Program Description

Application Number: **2**
Funding: HOME

Applicant: **Habitat for Humanity Riverside**
Program: **Critical Home Repair (CHR)**

Requested Funding Amount:	**$318,750.00**
Total # Person Served:	15
MV # Person Served:	15
Funding per Person Served:	$21,250.00

Program Description:

The Critical Home Repair program is a one-time home preservation service offering interior and exterior repairs to assist homeowners living in a single-family home or mobile home secured to the permanent foundation as their primary residence within the City of Moreno Valley. The interior repairs consist of electrical, plumbing, floor repair, wall repairs, kitchen repairs, termite work, air conditioning, bath repairs, heating, ceiling repairs, etc. The exterior maintenance includes replacement or repairs of roofing, house trim, siding, steps, entrance, door, windows, porch deck, handicap access ramps, tree removal, and any other maintenance to ensure health, safety and code enforcement compliance. The program assists fifteen households in the low to moderate income range for the repairs not to exceed $15,000 per household, for the typical project and not to exceed $17,500 for the exceptional case, with prior approval from the City as long as the overall budget is not exceeded.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
HOME Investment Partnerships Program (HOME)
Applicant Program Description

Application Number: **3**
Funding: HOME

Applicant: **Neighborhood Housing Services of the Inland Empire**
Program: **NHSIE Building blocks: Moreno Valley**

Requested Funding Amount:	**$200,000.00**
Total # Person Served:	24
MV # Person Served:	24
Funding per MV Person Served:	$8,333.33

Program Description:

NHSIE's Build Blocks is a rental and homeownership development for low-moderate residents in Moreno Valley. Using the community land trust model, NHSIE will use $150,000 from the HOME funds to acquire land in the city and $25,000 for pre-development cost. With a growing team an additional $25,000 is requested to support in building capacity on the development team and operating cost within the department. NHSIE's goal is to build 12-24 units on the purchased property.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Emergency Solutions Grants Program (ESG)
Applicant Program Description

Application Number: **4**
Funding: ESG

Applicant: **Neighborhood Housing Services of the Inland Empire**
Program: **Rebuild IE**

Requested Funding Amount: **$39,990.00**
Total # Person Served: 20
MV # Person Served: 200
Funding per MV Person Served: $199.95

ESG Component	Grant	Match	Component Totals
Street Outreach		$ 40,000	$ 40,000
Emergency Shelter			
Homelessness Prevention	$ 39,990		$ 39,990
Rapid Rehousing			
Total	$ 39,990	$ 40,000	$ 79,990

Program Description:

The purpose of NHSIE's Rebuild IE initiative is to support residents achieve housing stability. Through education courses, 1-1 counseling and financial assistance the residents of Moreno Valley will be introduced to a step-by-step process designed to equip them with the necessary tool to avoid eviction/homelessness and being a journey toward achieving the dream of homeownership. With the funds from ESG, NHSIE reach up to 200 clients in direct services support 52 households with financial assistance (52- $120 rental application fees/ 27- deposits and moving cost up to $1250) who are LMI AMI 80% or below.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **5**
Funding: CDBG

Applicant: **Building Up Lives Foundation (BULF)**
Program: **Free Market Project with Community Food Booths**

Funding Type: Public Service (Emergency food)
City Objective: Public Service
Public Service Priority: (1) Basic Needs (Care management for Food Program)

Requested Funding Amount: **$40,000**
Total # Person/Unit Served: 2500/month
MV # Person/Unit Served: 2250/month
Funding per MV Person/Unit Served: $17.78

Program Description:

BULF currently has a location that offers services, product, and information on an appointment basis, with open operating hours weekly. The Free-Market Project will be monthly at a central location to add additional product to include but not limited to personal hygiene, cleaning products, food items, and clothing. We would like to extend the project to make it available for emergency situations on a case-by-case basis.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **6**
Funding: CDBG

Applicant: **Family Service Association (FSA)**
Program: **Senior Nutrition Program**

Funding Type:	Public Service (Senior Services)
City Objective:	Public Service
Public Service Priority:	(1) Basic Needs (Case Management for Food Program)

Requested Funding Amount:	**$20,000.00**
Total # Person Served:	435
MV # Person Served:	435
Funding per MV Person Served:	$45.97

Program Description:

FSA's Senior Nutrition Program provides seniors with one nutritionally balanced meal Monday-Friday. The meals are provided to seniors 62 years of age and older in a group setting at the City of Moreno Valley Senior Center. Meals are also provided through an in-home delivery service to seniors who are unable to go to the center because of illness, disability, or lack of transportation.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **7**
Funding: CDBG

Applicant: **Junior League of Riverside**
Program: **Diaper Bank of the Inland Empire**

Funding Type: Public Service
City Objective: Public Service
Public Service Priority: (1) Basic Needs

Requested Funding Amount: **$19,000.00**
Total # Person Served: 750
MV # Person Served: 122
Funding per MV Person Served: $155.73

Program Description:

The Diaper Bank of the Inland Empire provides diapers/wipes to Riverside and San Bernardino County families with limited access to basic needs. As the only Diaper Bank serving the entire Inland Empire region, demand is high and expanded services are critical in an effort to further support low-income and under resourced families. The Diaper Bank of the Inland Empire directly supports the City of Moreno Valley's goal to address community development needs of LMI persons through HUD's Suitable Living Environment statutory goal by increasing access to a basic need that is not otherwise covered by federal assistance programs such as TANF, SNAP, and WIC.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **8**
Funding: CDBG

Applicant: **City of Moreno Valley - Moreno Valley Sheriff's Station**
Program: **POP & CDU Targeted Community Betterment**

Funding Type:	Public Service (Crime Awareness/Prevention)
City Objective:	Public Service
Public Service Priority:	(2) Community Public Safety Programs
Requested Funding Amount:	**$81,400.00**
Total # Person Served:	undetermined
MV # Person Served:	undetermined
Funding per MV Person Served:	undetermined

Program Description:

The CDBG grant funds will be used to provide added enforcement support through overtime hours worked in the CDDBG target areas. The overall purpose is to reduce crime within the areas, improve blighted conditions, and enhance quality of life for the targeted community. The officers will acquaint themselves with stakeholders and residents and will work closely with them to forge improved relationships to reduce crime. Additionally, funding will be used for CSU overtime to provide training for the Citizens Patrol and Volunteer/Explorer Programs, which enhance crime preventative efforts.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **9**
Funding: CDBG

Applicant: **Riverside Area Rape Crisis Center**
Program: **Building Safe Communities**

Funding Type:	Public Service (Crime Awareness/Prevention)
City Objective:	Public Service
Public Service Priority:	(2) Community Public Safety Programs
Requested Funding Amount:	**$15,000.00**
Total # Person Served:	9,000
MV # Person Served:	2,600
Funding per MV Person Served:	$5.77

Program Description:

Building Safe Communities promotes mental health equity, increases community safety, and addresses gender-based violence through a hybrid outreach and education service model. The program reaches over 9,000 individuals annually, including 2,600 Moreno Valley residents. To reach Moreno Valley residents who face myriad barriers and lack access to culturally specific support and resources, RARCC's Building Safe Communities online portal offers access to rape prevention education, healthcare, and other informational resources. Moreno Valley residents who access the portal will complete a demographic profile including address, zip code, and HUD income per household acknowledgment. RARCC will measure community safety and awareness and offer participation in virtual learning and in-person workshops. RARCC expects 90% of participants and online visitors to increase their knowledge of trauma care, gender-based violence, and how to identify healthy behaviors that improve community safety. Virtual sessions require pre- registration with zip code to ensure that CDBG-funded clients are tracked appropriately.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **10**
Funding: CDBG

Applicant: **Friends of Moreno Valley Senior Center**
Program: **City of Moreno Valley Low-Income Solar Energy Assistance Program**

Funding Type: Public Service (Senior Services)
City Objective: Public Service
Public Service Priority: (3) Low-Cost Transportation

Requested Funding Amount:	**$75,000.00**
Total # Person/Unit Served:	180
MV # Person/Unit Served:	180
Funding per MV Person/Unit Served:	$416.66

Program Description:
MoVan is a transportation van for twelve passengers plus 2 wheelchairs, provided Monday through Friday, 8:00am-5pm. The MoVan is a convenient form of transit service dedicated to meet mobility needs of Moreno Valley seniors 60 years plus and disabled adults. MoVan transports curb-to-curb to our Senior Community Center as well as medical, legal, food distribution appointments and City events. MoVan provides this at a low cost of $1.00 each way within a 20-mile radius. No one is turned away due to their inability to pay. The requested funds are used to pay the third-party transit company for drivers, dispatch service, fuel, maintenance, permit fees and insurance at an all-inclusive rate of $83.48/hour.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **11**
Funding: CDBG

Applicant: **Davis Beautiful Minds Entrepreneurship Inc**
Program: **Beautiful Minds Youth Entrepreneurship & Employment**

Funding Type:	Public Service (Job/Program Training)
City Objective:	Public Service
Public Service Priority:	(5) Employment Services/Programs and Job (Skills) Training

Requested Funding Amount:	**$86,620**
Total # Person Served:	90-120
MV # Person Served:	90-120
Funding per MV Person Served:	$962.44

Program Description:

BME's objective is to assist with removing the red tape and educational hurdles our young entrepreneurs and employment seekers are challenged with when trying to jump start their future in business and employment goals. BME is beneficial serving the community by empowering youth with knowledge that will allow them to become self-sufficient and capable of living a quality lifestyle. Training 15-30 students in 12-week blocks.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **12**
Funding: CDBG

Applicant: **WeeCare Inc.**
Program: **BOOST (Business Operation & Optimization Support Tools)**

Funding Type:	Public Service (Job Skills Training)
City Objective:	Public Service
Public Service Priority:	(4) Employment Services/Program and Job (Skills) Training

Requested Funding Amount:	**$432,000.00**
Total # Person Served:	1,102
MV # Person Served:	1,102
Funding per MV Person Served:	$392.01

Program Description:

WeeCare's BOOST program provides technical assistance and business support to childcare providers who run home daycares. They serve children ages 0-5 (and up to age 13 with before/after school care). The program's goal is to expand economic opportunities for daycare providers in Moreno Valley by training them to use essential tools to make their operations more efficient. This enables them to reach their full revenue potential and stabilize their jobs in the childcare industry. Daycare providers get personal guidance, relevant technology tools and learn best practices to grow and sustain their business, all while supporting the LMI with childcare services. Therefore, WeeCare requests $432,000 to pay for the program expenses to run BOOST for one year. This will benefit 72 LMI daycare owners, potentially create 22 LMI jobs, and can benefit up to 1,008 LMI families seeking childcare.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **13**
Funding: CDBG

Applicant: **Assistance League of Riverside**
Program: **Operation School Bell**

Funding Type:	Public Service (Youth Services)
City Objective:	Public Service
Public Service Priority:	(5) Free/Low-Cost programs for School-Aged Youth

Requested Funding Amount:	**$35,000.00**
Total # Person Served:	2000
MV # Person Served:	375
Funding per MV Person Served:	$93.33

Program Description:

Operating since 1967, Operation School Bell (OSB) is a program provided to students with a goal of assisting them in removing barriers to learning. The program provides new school clothes and dental kits to homeless and economically disadvantaged children. Through collaboration with nine school districts, we get referrals for students who need our program. We expect to serve around 2000 students next year and believe about 375 of these will come from Moreno Valley. Referred students are assigned a specific date and time to come to a local JCPenney store (one of which is in Moreno Valley). The students are met by Assistance League of Riverside (ALR) volunteers who guide them regarding what type of purchases they may make (school-appropriate backpacks, clothes, and/or shoes). After the students select their purchases, an ALR volunteer pays. Younger students receive $130-worth and older students receive $150-worth.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **14**
Funding: CDBG

Applicant: **Operation Safe House Inc**
Program: **Operation SafeHouse Emergency Shelter for Youth**

Funding Type:	Public Service (Homelessness Services)
City Objective:	Public Service
Public Service Priority:	(1) Basic Needs (Homelessness Services)

Requested Funding Amount:	**$15,000.00**
Total # Person Served:	20
MV # Person Served:	20
Funding per MV Person Served:	$750

Program Description:

Operation SafeHouse was established in 1990 by two Moreno Valley educations who found there was nowhere for runaway, homeless or other youth ages 11-17 who were in crisis to go. Since 2000, our collaboration with the City of Moreno Valley allows us to use the City of Moreno Valley Police Department to transport youth to our shelter, provide on-site school programs that serve 1,300 Moreno Valley Middle and High School students annually, and SafeHouse is a member of the Citywide Coalition. CDBG funds will be used to provide direct services to a minimum of 20 City of Moreno Valley Youth.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **15**
Funding: CDBG

Applicant: **Voices for Children**
Program: **Court Appointed Special Advocate (CASA) Program**

Funding Type: Public Service (Services for Abused and Neglected Children)
City Objective: Public Service
Public Service Priority: (5) Free/Low-Cost programs for School-Aged Youth

Requested Funding Amount: **$30,000.00**
Total # Person Served: 15
MV # Person Served: 15
Funding per MV Person Served: $2000.00

Program Description:

VFC's Court Appointed Special Advocate (CASA) program will address the needs of abused and neglected City of Moreno Valley youth in foster care by providing them with the comprehensive, individualized advocacy of a CASA volunteer in court and throughout the community. The organizational cost of providing one year of CASA advocacy to a youth in Riverside County is $2,000. A $30,000 grant from the City of Moreno Valley CDBG program will enable Voices for Children (VFC) to provide CASA volunteers to fifteen (15) youth from the City of Moreno Valley during fiscal year (FY) 2023-24. On average, CASAs provide youth with 10-15 hours of direct advocacy services per month. This grant would partially fund salaries for the VFC staff Advocacy Supervisors who will manage the CASA volunteers and the cases of grant-funded City of Moreno Valley youth in foster care.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **16**
Funding: CDBG

Applicant: **Fair Housing Council of Riverside County Inc**
Program: **Anti-Discrimination and Landlord Testing Counseling**

Funding Type: Public Service (Fair Housing Activities)
City Objective: Public Service
Public Service Priority: (6) Fair Housing

Requested Funding Amount: **$70,875.00**
Total # Person Served: 12,500
MV # Person Served: 4,000
Funding per MV Person Served: $17.71

Program Description:

The Fair Housing Council of Riverside County (FHCRC) proposes to offer a full menu of fair housing services which affirmatively address and promote fair housing rights and obligations. FHCRC accomplishes this through three component areas under both ANTI-DISCRIMINATION and LANDLORD/TENANT services which include education, training and technical assistance, and enforcement.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **17**
Funding: CDBG

Applicant: **Neighborhood Housing Services of the Inland Empire**
Program: **Project Grow**

Funding Type:	Public Service (Affordable Housing)
City Objective:	Public Service
Public Service Priority:	(6) Fair Housing

Requested Funding Amount:	**$30,000.00**
Total # Person Served:	50
MV # Person Served:	50
Funding per MV Person Served:	$600

Program Description:

Project Grow is NHSIE's program that will increase affordable housing supply, improve distressed neighborhoods, decrease blight and slums as well as provide housing stability to both potential renters and current homeowners. Project Grow includes NHSIE's ADU technical assistance program, led by a HUD certified counselor they'll walk homeowners through a step-by-step process to preserve their property by adding a additional unit on their property. NHSIE will encourage the homeowner to rent at a below market to support future renters. The project will educate and counsel 50 Moreno Valley homeowners and provide up to $20,000 in rehabilitation/preservation support to 15 homeowners to begin the process of ADU development.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **18**
Funding: CDBG

Applicant: **California Drug Consultants**
Program: **Integrated Care Revitalization Project**

Funding Type: Health, Safety, and Public Welfare
City Objective: Health, Safety, and Public Welfare
Public Service Priority: N/A

Requested Funding Amount: **$237,700**
Total # Person Served: 128
MV # Person Served: 128
Funding per MV Person Served: $1,857.03

Program Description:

This project is proposing the renovation of its existing 20-year Residential Care Facilities for the Elderly to better serve its 100% population of Elderly, many of whom are disabled, in order to provide more dignified living conditions. The proposed project will include renovations of the common areas and shared living spaces for all four of the existing on-site residential care facilities. Specifically, California Drug Consultants, Inc. will be replacing the carpet with vinyl hardwood floors, replacing countertops in the kitchens and dining areas, repainting the walls and sanding, and repainting the cabinets to improve ease of use. Additionally, funds will be used to replace the existing appliances which include: washer/dryer units, dishwashers, microwaves, oven ranges and refrigerators. The purpose of these improvements will be to improve usability, and provide clean, safe, energy efficient, functional facilities for residents regardless of income or background.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **19**
Funding: CDBG

Applicant: **City of Moreno Valley**
Program: **Pavement Rehabilitation for Various Local Streets**

Funding Type: Public Facilities and Improvements
City Objective: Capital Improvements
Public Service Priority: N/A

Requested Funding Amount:	**$1,600,000.00**
Total # Person Served:	Approx. 908
MV # Person Served:	Approx. 908
Funding per MV Person Served:	$1,762.11

Program Description:

This project provides new pavement construction and pavement rehabilitation for 17 local streets within the City's HUD-CDBG target areas. Pavement rehabilitation consists of the removal of 1.5-inch thick of existing asphalt concrete pavement surface and construction of new asphalt concrete pavement surface of same thickness for streets that are severely distressed. Rehabilitation also includes localized pavement repairs, crack sealing, and application of slurry seal for streets that are less distressed. New pavement is proposed for a segment of Brill Road. The project is to improve roadways and extend the service life of street pavement while enhancing safety and aesthetic appearance of various communities within HUD-CDBG target areas. Refer to the Location Map and List of Streets for more information.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **20**
Funding: CDBG

Applicant: **GRID Alternatives Inland Empire**
Program: **City of Moreno Valley Low-Income Energy Assistance Program**

Funding Type:	Rehabilitation: Single Unit Residential
City Objective:	Housing and Neighborhood Improvement Activities
Public Service Priority:	N/A

Requested Funding Amount:	$100,000
Total # Person/Unit Served:	40 Persons / 10 Units
MV # Person/Unit Served:	40 Persons / 10 Units
Funding per MV Person/Unit Served:	$2,500.00 per person / $10,000 per Unit

Program Description:

GRID will install solar electric systems in Moreno Valley for 10 low-income homeowners earning no more than 80% of AMI. Of the awarded funds, $50,000 will be allocated to provide roof repair necessary to make homes suitable for solar. These installations will also benefit GRID's job trainees and volunteer participants with opportunities to gain hands-on experience. Each solar installation generates impact outcomes that include long-term financial and wellbeing benefits for low-income families; hands on experience for job trainees and volunteers; and environmental benefits for the community through the reduction in greenhouse gas emissions.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023/24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **21**
Funding: CDBG

Applicant: **Inland Compassion**
Program: **Moreno Valley Sanctuary**

Funding Type:	Rehabilitation/Preservation
City Objective:	Homeless/Homeless Prevention Activities
Public Service Priority:	N/A

Requested Funding Amount:	**$1,213,898**
Total # Person Served:	88-300
MV # Person Served:	60
Funding per MV Person Served:	$20,231.63

Program Description:

The purpose of the Moreno Valley Sanctuary is to provide a safe and consistent place (gated and fenced parking lot with outdoor kitchen and restroom) for individuals to sleep in their vehicles, so they do not have to worry about getting robbed or assaulted and have stability for employment. They will be able to sleep with less worry, use the restroom, cook food, build a camaraderie with the other residents, get needed supplies, and feel at home until they transition into a place they call home. The Moreno Valley Sanctuary will allow the city to get a better-unhoused count, provide case-management for housing placement, will transition 60 individuals into housing in one fiscal year, and will cost $1,213,898 or less depending on if land is bought or rented.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

City of Moreno Valley
Fiscal Year 2023-24
Community Development Block Grant (CDBG)
Applicant Program Description

Application Number: **22**
Funding: CDBG

Applicant: **Mary Erickson Community Housing**
Program: **Fir Lasselle Permanent Supportive Transitional Housing**

Funding Type: Homeless/Homeless Prevention Activities (Transitional Shelter) City Objective: Homeless/Homeless Prevention Activities
Public Service Priority: n/a

Requested Funding Amount: **$1,213,898**

Requested Funding Amount:
Total # Person Served: 168
MV # Person Served: 158
Funding per MV Person Served: $515.18

Program Description:

Applicant proposes to acquire two sets of vacant lots both privately and City-owned on Fir Ave (60 units). and Lasselle St. (52 units) for future 112 units of permanent supportive-transitional housing (PSH-T) for families, couples, individuals, and Moreno Valley College students at risk of homelessness. Applicant will turn-key project using innovative, significantly lower cost and rapid deployment construction method LifeArk to owner-operator non-profit, The Illumination Foundation (TIF). LifeArk design with shared living space combined with lockable pods perfectly balances socialization to combat loneliness with the need for privacy. TIF clients receive intensive case management services, life skills instruction, connections for reintegration into the community, and if qualified behavioral/medical health through Inland Empire Health Plan and Medi-Cal, CalAIM. State Project Home Key funds may subsidize the financing gap for affordable housing walkable to high-quality transit, shopping, and healthcare amenities. CDBG funds will be used for land acquisition and PSH-T in-take services.

Attachment: MV Grant Funding Reco Booklet 041823 v3 edits - 4-11-23 (6218 : PUBLIC HEARING TO REVIEW AND BEGIN THE 30-DAY PUBLIC

Report to City Council

TO:	Mayor and City Council
FROM:	Manuel A. Mancha, Community Development Director
AGENDA DATE:	April 18, 2023
TITLE:	MORENO VALLEY TRADE CENTER

RECOMMENDED ACTION

That the City Council take the following actions:

1. Adopt Resolution No. [next in order] approving and adopting the Mitigation, Monitoring and Reporting Program and Statement of Overriding Considerations and Certifying the Final Environmental Impact Report for the Moreno Valley Trade Center Project;

2. Adopt Resolution No. [next in order] approving General Plan Amendment (PEN19-0191), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) and the respective conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

3. Introduce Ordinance No. [next in order] approving Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas and the conditions of approval, based on the Recitals, Evidence and Findings contained in the Administrative Record of the proceedings;

4. Adopt Resolution No. [next in order] finding and determining pursuant to Senate Bill No. 330 that approval of the Moreno Valley Trade Center project shall not result in a net loss in residential capacity; and,

5. Adopt Resolution No. [next in order] accepting the Community Benefits and Community Park on behalf of the City of Moreno Valley, as offered by the Applicant and set forth in the Community Park Acquisition and Improvement Agreement and authorize the City Manager to execute the Agreement and approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

BACKGROUND:

The proposed Moreno Valley Trade Center project consists of the following: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193), collectively, the "Proposed Project." The Proposed Project, as analyzed by the Draft Environmental Impact Report ("Draft EIR") consisted of the proposed merger of 11 parcels into a single parcel for the purpose of developing and constructing an approximately 1,263,271 square foot "warehouse and logistics center" or in the alternative a "fulfillment/e-commerce center facility" on about 80 acres south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard, currently comprising Assessor Parcel Nos. 488-340-002 through 012 ("Project Site").

The Proposed Project's warehouse and logistics center option was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project's warehouse and logistics center option based on the findings that: 1) the Proposed Project's warehouse and logistics center option was inconsistent with the City's General Plan; and 2) the Proposed Project's warehouse and logistics center option would result in significant and unavoidable environmental impacts to the surrounding community.

The Applicant, MVTC, LLC, a Delaware limited liability company, appealed the Planning Commission's decision (Planning Case No. PAA21-0001), and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021. However, at the public hearing, the City Council did not rule on the appeal; rather, after receiving public testimony, the City Council unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project (both options) to a date uncertain.

The City Council public hearing for the Proposed Project has subsequently been rescheduled (continued) for the City Council Meetings of June 21, 2022, November 15, 2022, and December 6, 2022. The November 15, 2022, City Council meeting was adjourned due to a lack of a quorum. However, at the subsequent City Council meeting, the public hearing was continued to a date uncertain at the request of the Applicant. Thereafter, on March16, 2023, the applicant submitted an email (Attachment 27), requesting that the public hearing be scheduled for the City Council meeting of April 18, 2023. As such, all the requisite public hearing notices were prepared, distributed and posted pursuant to applicable law for the April 18, 2023 public hearing.

Proposed Project - Requested Entitlements

The Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and the corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193).

General Plan Amendment (PEN19-0191) – The purpose of the General Plan Amendment is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP). The primary purpose of the Business Park (BP) General Plan Land Use Designation is to provide for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. The proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east, which have Business Park (BP) Land Use Designations. The parcels to the northwest, north, and northeast have been developed with industrial warehouse buildings. The parcels to the east are currently vacant and unimproved. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

Change of Zone (PEN19-0192) – The purpose of the Change of Zone is to rezone the Project Site from Residential Agriculture 2 (RA2) District to Light Industrial (LI) District, and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification. The primary purpose of the Light Industrial (LI) District zone is to provide for light manufacturing, light industrial, research and development, warehousing and distribution, and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. The Light Industrial District (LI) District is intended as an area for light industrial uses that can meet high-performance standards. The proposed Change of Zone will be consistent with the Project Site's adjacent parcels to the northwest, north, and northeast, which are currently zoned Light Industrial (LI) District and developed with industrial warehouses uses.

Tentative Parcel Map (PEN19-0234) – The purpose of the Tentative Parcel Map is to merge the existing 11 parcels into a single parcel. Out of the 11 subject parcels, 7 parcels are currently vacant and unimproved. The other 4 parcels are developed with the Adam's Hall Plant Nursery that includes some residential structures. Staff has reviewed the proposed Tentative Parcel Map and confirmed that the proposed single parcel complies with all applicable development and subdivision standards consistent with the State's Subdivision Map Act.

Plot Plan (PEN19-0193) – The purpose of the Plot Plan is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements, and off-site public improvements. An alternative land-use option, a fulfillment/e-commerce center facility was also discussed in the Draft EIR. Should the Applicant decide to pursue the option of developing and constructing the fulfillment/e-commerce center facility, either an amended Plot Plan or a new Plot Plan proposal would have to be submitted for review and approval.

Proposed Revisions to the Proposed Project Description

As described above, the Proposed Project, as analyzed by the Draft EIR, consisted of a warehouse and logistics center or in the alternative a fulfillment/e-commerce center option. The Planning Commission's decision, however, was related only to the Proposed Project's warehouse and logistics center option.

The Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public at the City Council public hearing held on December 7, 2021. As a result, the Applicant decided to submit various revisions to the Proposed Project's warehouse and logistic center that the Applicant believes are responsive to the various concerns that have been officially raised regarding the scope of the Proposed Project's warehouse and logistics center option and its impacts on the surrounding community and environment.

Section 3.0, Project Description, of the Draft EIR included a detailed description of the Proposed Project, as originally proposed. With the exception of the items listed below, all components of the proposed development and characteristics of the Proposed Project's warehouse and logistic center, as described in Section 3.0 of the Draft EIR remain applicable, in that they will not need to be altered, modified or changed in any manner to accommodate any of the "Proposed Revisions" as offered by the Applicant, as particularly described below. (See Moreno Valley Trade Center - Revised Project Evaluation, attached hereto.)

The Proposed Revisions include the following:

1. The square footage of the interior floor area of the Proposed Project's light industrial building will be reduced by 65,582 square feet to approximately 1,263,271 square feet.
2. The number of loading docks on the south side of the building will be reduced by 4 to 117 loading docks.
3. The number of loading docks on the north side of the building will be reduced by 7 to 97 loading docks.
4. The number of trailer parking spaces will be reduced by 10 to 228.
5. The number of passenger vehicle parking spaces will be reduced by 86 to 521.
6. All driveways on Encelia Avenue will be eliminated.
7. The finished floor elevation (feet above mean sea level) of the building will be reduced by approximately 3.25 feet to 1,732.25 feet, which will reduce the perceived height of the building.
8. An approximately 35-foot-tall, solid earthen berm, densely landscaped with trees, shrubs, and groundcover, will be installed at the interface between the Project Site's southern boundary and Encelia Avenue.
9. Truck access will be limited to Eucalyptus Avenue, thereby eliminating any truck access from Redlands Boulevard.
10. Traffic signals will be installed at Redlands Boulevard at the proposed northern driveway to the Project Site.
11. A water quality/detention basin will be installed at the southeastern corner of the Project Site.

The Draft EIR still includes the alternative fulfillment/e-commerce center option. However, while the fulfillment/e-commerce center option remains conceptual, the Applicant has proposed that the Proposed Revisions described above also apply to the Proposed Project's fulfillment/e-commerce center option, with the following modifications applied to the number of loading docks, trailer parking stalls, and passenger vehicle parking stalls. For the fulfillment/e-commerce center option, the Applicant proposes zero loading docks on the south side of the proposed building; only 103 trailer parking stalls on the north side of the building; and 3) 1,352 passenger vehicle parking stalls for the entire Project Site. (See Conceptual Site Plan for the Fulfillment/E-Commerce Option, attached hereto).

It is important to note that there are no proposed modifications requested by the Applicant nor recommended by staff regarding the proposed General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021, at the City Council public hearing. As discussed above, the purpose of the General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP), which provides for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. Moreover, the purpose of the Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 (RA2) District to Light Industrial (LI) District, and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification. The purpose of the Light Industrial District (LI) zone is to provide for light manufacturing, light industrial, research and development, warehousing and distribution, and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. In conclusion, the Proposed Revisions do not necessitate any need to modify the Applicant's requests for either the General Plan Amendment (PEN19-0191) or Change of Zone (PEN19-0192) since the proposed uses remain the same. In light of the foregoing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action on the revised Project, as otherwise would have been required per sections 9.02.040 (General plan amendments) and 9.02.050 (Amendments to zoning districts or other provisions of Title 9) if there were in fact modifications made to either General Plan Amendment (PEN19-0191) or Change of Zone (PEN19-0192).

Storm Drain Condition

1. The Proposed Project has been conditioned to require the Applicant, prior to occupancy, to install a 72" reinforced concrete pipe (RCP) storm drain to join the existing 72" RCP, located at Redlands Boulevard south of Eucalyptus Avenue. The Applicant shall also make the necessary installations to cause the proposed 72" RCP to transition to a proposed 78" RCP at Redlands Boulevard north of Encelia Avenue which will also be installed by the Applicant and which will terminate near Dracaea Avenue where it will join an existing 42" RCP. The Applicant has consented to complying with this condition, as set forth in a letter from the Applicant, dated December 1, 2021, which is attached to the attached Resolution Accepting

Community Benefits and Approving Park Agreement, which is consistent with Municipal Code Section 9.14.110 (Flood control and tract drainage) and the City's relevant standard design standards that the City Engineer relies upon when determining whether the use of streets for drainage purposes is not in the interest of public health, safety and welfare. The City Engineer's determination that the use of streets for drainage purposes is not in the interest of public health, safety and welfare is based on 1) evidence that the water discharge that will be created by the Proposed Project (Proposed Project Flows) will exceed the existing water discharge conditions (Undeveloped, Existing Project Flows) associated with the Project Site, which will exacerbate the downstream flooding potential at Dracaea Avenue, and 2) the capacity of existing downstream drainage infrastructure including that of the developed westerly half of Redlands Boulevard. The City's construction inspector supervisor has noted that flooding has occurred on the east and west side of Redlands Boulevard between Encelia Avenue and Dracaea Avenue during significant rain events, with the flooding on the eastern side of Redlands Boulevard spilling over to the west side of the street. For instance, under significant rain events (i.e., major storm events), at the 42" storm drain headwall, stormwater tends to back up and eventually flows over to the other side of Redlands Boulevard as fast-moving sheet flow which may create dangerous driving conditions and a risk of property damage. Additionally, it is common for manhole lids downstream from the 42" headwall at Dracaea Avenue to pop open when the 42" pipe backs up due to the velocity and the volume of water that flows through the subject storm drainpipe during major storm events.

Community Benefits Offered by Applicant

In addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous "Community Benefits," as set forth in letters from the Applicant, dated December 1, 2021, June 14, 2022, and April 13, 2023 which are included in the attached Resolution Accepting Community Benefits and Approving Park Agreement, that fall beyond the City's legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlements, with the exception of the Storm Drain Condition described above. In other words, since the Community Benefits being offered by the Applicant lack sufficient nexus to the potential impacts of the Proposed Project, the City lacks the legal authority to unilaterally imposed the Community Benefits as bona fide Mitigation Measures or Conditions of Approval. Notwithstanding the above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval. As such, since these conditions of approval will be incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure the implementation of each of the Community Benefits offered by the Applicant.

The Community Benefits offered by the Applicant in their December 1, 2021 letter include providing up to $204,000 to fund and administer several electric vehicle grant programs, which will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles. The Developer shall be responsible for establishing, funding, and administering each of the

grant programs and provide a hyperlink to each grant program that the City may post on the City's official website for interested parties to access information about the programs. In addition, the Applicant has offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program, and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park. Moreover, only electrical appliances shall be used in building office areas, and the use of portable or stationary diesel-powered generators shall be prohibited unless necessary due to emergency situations or constrained supply. Also, all construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Proposed Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Proposed Project.

The Community Benefit offered by the Applicant in their June 14, 2022 letter is a $500,000 cash contribution to the Moreno Valley Community Foundation before a final Certificate of Occupancy is issued for any building or structure on the Project Site. (The specific purpose of the Moreno Valley Community Foundation, as described in its Bylaws, are as follows: 1) to lessen the burdens of government by aiding and assisting in the implementation, improvement, and maintenance of public services that preserve and promote the health and welfare and education of local citizenry of the City of Moreno Valley; 2) to form unincorporated divisions responsible for the furtherance of one or more of such public services as deemed appropriate by the Board of Directors of the Foundation; and 3) to receive, invest, and utilize funds and property acquired through the solicitation of contributions, donations, grants, gifts, bequests and the like for the purposes for which the Foundation was formed. Furthermore, all assets of the Foundation must be irrevocably dedicated to public and educational purposes for the benefit of the City and the residents and absolutely no part of the net income or assets of the Foundation shall ever inure to the benefit of any director, officer, or member thereof, or to the benefit of any private persons.

The Community Benefits offered by the Applicant in their April 13, 2023 letter include the donation $1,000,00.00 in annual revenue to the Moreno Valley Community Foundation for the first 15 years, a donation of $15,000,000.00 as a one-time payment, restricting the building height to 60 feet maximum, exclusively marketing to manufacturing uses for the first year, adding a 9,000 square foot community youth center to the previously proposed park, partnering with and donating $250,000 to the Kawhi Leonard Foundation for youth programs in the City; and the construction of two mega tesla charger stations for electric vehicle trucks on the project site.

In addition to the above-referenced Community Benefits, the Applicant has offered to develop and construct an 18-acre park facility, accommodating two full-size size fully lighted soccer fields, a fully lighted baseball field, a snack bar/concession, public restrooms, a walking path, playground, exercise equipment, landscaping and related parking, as more particularly described in the Community Park Acquisition and

Improvement Agreement, which is attached to the attached Resolution Accepting Community Benefits and Approving Park Agreement. Incidentally, the lighting installed by the Applicant will be for general illumination and night security purposes. The facility will be connected to all public utility services and all off-site public and private improvements shall be installed by the Applicant without any financial assistance or labor, equipment or materials provided by the City of Moreno Valley. Furthermore, fee title to the land for the facility shall be acquired by the Applicant without any financial assistance from the City of Moreno Valley. Fee title to the facility's real property and all improvements, free of any liens, mortgages non-public utility easements, or any other encumbrances, will be donated to the City of Moreno Valley.

Again, all of the Community Benefits referenced above (excepting the storm drain condition described above), the contribution to the Moreno Valley Community Foundation, and the development of the Community Park are neither CEQA-related mitigation measures nor conditions of approval that the City has the legal authority to unilaterally impose on the Applicant or the Proposed Project, due to the lack of the requisite nexus that is otherwise required in order to unilaterally impose as environmental mitigation measures or conditions of approval on an applicant or a proposed development project that requires discretionary approval. Notwithstanding the above, the Applicant has agreed that everything being offered by the Applicant be memorialized as enforceable conditions which means the City will be able to use code and permit enforcement procedures to ensure implementation.

Preparation of EIR

The Draft EIR and associated environmental documents for the Proposed Project were prepared by a third-party environmental consultant, T&B Planning, Inc. In practice, Lead Agencies commonly either retain a consultant to prepare the EIR or accept an EIR prepared by the applicant or its consultant rather than have City staff prepare the EIR. CEQA authorizes a Lead Agency to enter into a contract for the preparation of an EIR, and the CEQA Guidelines permit agencies to accept EIRs prepared by project applicants or their consultants. (*See CEQA section 21082.1(a)) and CEQA Guideline section 15084(d)(3)*.)

However, under CEQA, whatever method of preparation the Lead Agency uses, it must independently review and analyze the Draft EIR, and circulate a Draft EIR that reflects its independent judgment. (*See CEQA section 21082.1 (c)(1)-(2) and CEQA Guidelines section 15084 (e).*) In other words, the Lead Agency cannot avoid its legal obligation to independently review and evaluate the EIR by contracting with a consultant to prepare the EIR.

In light of the foregoing, staff independently analyzed the Draft EIR and all related documents, including but not limited to Preliminary WQMP, Hydrology Report, Noise Impact Analysis, and Traffic Impact Analysis. Relevant environmental documents were reviewed by various Departments and Divisions of the City, including without limitation, Planning, Public Works, Engineering and Fire, and the City Attorney's Office.

Draft EIR Public Comments & Responses to Comments

Fifteen public written comment letters were received during the 45-day public review period. Some of the written comments expressed concern regarding potential impacts to air quality, noise, traffic, and aesthetics, while others acknowledged the Proposed Project without providing specific comments addressing potential environmental impacts of the Proposed Project.

Per CEQA and the CEQA Guidelines, the Lead Agency must evaluate comments on the Draft EIR that were received during the public review period and must include written responses to comments in the Final EIR. (*See CEQA section 21091(d) and CEQA Guidelines section 15088(a).*) However, the Lead Agency is only required to provide responses regarding the disposition of any "significant environmental issues" raised by commentators. (*See CEQA section 21091(d)(2)(B) and CEQA Guidelines sections 15088(c), 15132(d), and 15204(a).*) In other words, the Lead Agency is not required to respond to those comments that do not address environmental issues. The Lead Agency's responses to comments may be incorporated as revisions to the Draft EIR or included in a separate section in the Final EIR. (*See CEQA Guidelines section 15088(d).*) In either case, they must appear in the final EIR, which must include the draft EIR, with any revisions or comments on the draft EIR either verbatim or in summary, and the Lead Agency's responses to comments on significant environmental issues. (See CEQA Guidelines section 15132.)

Lead Agencies must respond to comments received during the public comment period. (*See CEQA Guidelines section 15088(a).*) CEQA, however, does not require that the Lead Agency respond to late comments. (*See CEQA section 21091(d)(1); see also Residents Against Specific Plan 380 v County of Riverside (2017) 9 CA5th 941 and Gilroy Citizens for Responsible Planning v City of Gilroy (2006) 140 CA4th 911*.). Further, the Lead Agency need not hold open the review process to prepare responses to late comments. (*See CEQA section 15207; see also City of Poway v City of San Diego (1984) 155 CA3d 1037*.) Given that there is no legal duty to respond to late comments, the claimed inadequacy of responses to late comments cannot be a basis for challenging the legal adequacy of an EIR. (*See Gray v County of Madera (2008) 167 CA4th 1099*.)

In light of the foregoing, the environmental consultant, Planning staff, Public Works and Engineering staff, and the City Attorney’s Office prepared responses to the written comments the City received within the 45-day public review period and those written responses are included in the Final EIR. However, any written comments received after the close of the 45-day public review period were not included in the Final EIR, nor are any responses thereto (if any) been included in the Final EIR.

Point-by-point responses to the individual comments, which addressed potential or alleged environmental impacts of the Proposed Project were prepared with some responses to certain comments consisting of cross-references to responses to similar or related issues. (*See CEQA section 21082.1*.)

The purpose of staff’s participation in preparing said responses is to ensure that the City, as Lead Agency, independently review and analyze them so that the responses to comments and the Final EIR as a whole reflects the City’s independent judgment. (*See*

CEQA section 21082.1(c).)

Mitigation Measures and Mitigation Monitoring & Reporting Program

Mitigation measures are proposed to reduce the level of potential environmental impacts of the Proposed Project. In the responses to comments, numerous mitigation measures are referenced when such references are related to the potential impact described in the respective comment. Furthermore, the mitigation measures have been incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR, although the Program does not have to be included in the EIR. (*See Christward Ministry v County of San Diego (1993) 13 CA4th 31.*) The purpose of the Mitigation Reporting and Monitoring Program is to ensure that Proposed Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms. (*See CEQA Guidelines section 5126.4(a)(2)*.) Moreover, because mitigation measures will be incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure the implementation of each of the Proposed Project's mitigation measures. (*See CEQA Guidelines section 15126.4.*)

Statement of Overriding Considerations

Although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the Proposed Project, after the application of all feasible mitigation measures, staff has determined that the Proposed Project would result in a few significant and unavoidable environmental effects. The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings, in the Statement of Facts and Findings.

Notwithstanding the above, when the Lead Agency approves a project with significant environmental effects that will not be avoided or substantially lessened, it must adopt a statement disclosing that because of the project's overriding benefits, it is approving the project despite its environmental harm. (*See CEQA Guidelines section 15043*.) The Lead Agency must set forth the reasons for its action, based on the final EIR or other information in the record. (*See CEQA section 21081(b) and CEQA Guidelines section 15093(a)*.) This requirement reflects the statutory policy that public agencies must weigh a proposed project's benefits against its unavoidable environmental risks and may find the adverse impacts "acceptable" if the benefits outweigh those effects. (*See CEQA section 21081(b) and CEQA Guidelines section 15093(a); see also Cherry Valley Pass Acres & Neighbors v City of Beaumont (2010) 190 CA4th 316, Sierra Club v Contra Costa County (1992) 10 CA4th 1212 and San Francisco Ecology Ctr. v City & County of San Francisco (1975) 48 CA3d 584*.) In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project,

such as the need to create new jobs, provide housing, generate taxes, and the like." (*See Concerned Citizens of S. Cent. L.A. v Los Angeles Unified Sch. Dist. (1994) 24 CA4th 826*.)

In light of the foregoing, staff recommends that based on balancing the benefits of the Proposed Project against the unavoidable effects which remain, the City Council should find that any one of the following benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations.

1. Approval of the Proposed Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

2. Approval of the Proposed Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.

3. Approval of the Proposed Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Proposed Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.

4. Approval of the Proposed Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.

5. Approval of the Proposed Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.

6. Approval of the Proposed Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach, thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.

7. Approval of the Proposed Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.

8. Approval of the Proposed Project will facilitate the development of long-standing underutilized and vacant land.

Recirculation of Draft EIR Not Required

The Proposed Revisions will NOT: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; nor 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR. This conclusion is supported by the various findings and determinations articulated in the recently prepared and updated technical studies, reports, and evaluations, attached to this Staff Report, which include but not limited to the following: 1) Revised Project Evaluation; 2) Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluations; 3) Traffic Impact Analysis Evaluations; 4) Noise Summaries; and 5) Hydrology Calculations. Accordingly, there are no changes needed to the analysis or mitigation measures contained in the Draft EIR; consequently, recirculation of the Draft EIR is not warranted according to the guidance set forth under CEQA and the CEQA Guidelines as referenced below. Furthermore, no changes are needed to the analyses or mitigation measures contained in the Final EIR that is under consideration by the City Council.

The Proposed Revisions, which are characterized as a "Comprehensive Project Redesign of the Proposed Project" (rather than mitigation) include a variety of changes to the Proposed Project through project redesign that are intended specifically to reduce the impacts of the Proposed Project as originally described in the Draft EIR. The Proposed Revisions will effectively benefit the neighboring residents, through reducing noise, traffic, and air quality impacts on neighbors by: 1) reducing building size by 65,000+ square feet; 2) eliminating driveways on Encelia Avenue which will remove 650 daily vehicles on Encelia Avenue; 3) eliminating truck traffic on Redlands Boulevard, south of Eucalyptus Avenue; 4) improving visual and noise screening prior to trees reaching full size; 5) eliminating 11 dock doors from the Proposed Project's design; and 6) adding a new approximately 35 foot-tall earthen berm on the southern side of the Project Site. The new onsite circulation will also direct trucks to access the Project Site from Eucalyptus Avenue only; as such, no trucks from the Project Site will travel on Redlands Boulevard, south of Eucalyptus Avenue as was originally proposed. Also, by designating the northern driveway on Redland Boulevard to "Automobile-Only," traffic traveling southbound toward Encelia Avenue will be reduced by 35% of what was originally proposed in the Draft EIR.

The addition of the approximately 35-foot berm to the southern portion of the Project Site will also result in major changes that will significantly lessen the Proposed Project's aesthetic impacts since: 1) it will completely block views of both the existing warehouses north of Eucalyptus Avenue and the Proposed Project from the adjacent neighborhood; 2) it will be landscaped with 24-inch box trees consisting of Blue Palo Verde, Desert Willow, California Sycamore, Coast Live Oak, Afghan Pine, and Canary Island Pine; and 3) only landscaping will then be visible from Encelia Avenue since the screen wall will be behind the berm. The berm will also lessen the anticipated noise impacts, as originally described in the Draft EIR, in that: 1) the berm will drastically reduce sound below levels in prior design by reducing the noise level by an additional 26% from what was originally projected in the Draft EIR; 2) the berm will reduce the estimated project noise levels to 35.5 decibels (equivalent to "Quiet Suburban Nighttime or Quiet Urban Nighttime") at the Encelia residential neighborhood, which is significantly lower than the ambient noise levels of 41.7 decibels (dBA Leq) that exist today within

the neighborhood; and 3) the berm will serve as a noise canceling mitigation measure related to ambient noise caused by back-up alarms mandated by OSHA and local regulations.

Normally, an EIR is circulated for one round of review and comment by the public and by public agencies. In some instances, however, an EIR must be recirculated for additional public comment, if significant new information is added to the EIR after the expiration of the public comment period but before certification. (*See Public Resources Code §21092.1; 14 Cal Code Regs §15088.5*.) However, recirculation is required only when the information added to the EIR changes the EIR in a way that deprives the public of a meaningful opportunity to comment on either a substantial adverse environmental impact of the project or a feasible project alternative or mitigation measure that would clearly reduce the impact and that is not going to be implemented.

A decision not to recirculate will be upheld if it is supported by substantial evidence in the administrative record. (*See 14 Cal Code Regs §15088.5(e); Laurel Heights Improvement Ass'n v Regents of Univ. of Cal. (1993) 6 C4th 1112; California Oak Found. v Regents of Univ. of Cal. (2010) 188 CA4th 227, 266*.) Under CEQA, “substantial evidence" means "enough relevant information and reasonable inferences from this information that a fair argument can be made to support a conclusion, even though other conclusions might also be reached." (*See 14 Cal Code Regs §15384(a) and Laurel Heights Improvement Ass'n v Regents of Univ. of Cal. (1988) 47 C3d 376, 393.*) Substantial evidence includes facts, reasonable assumptions based on facts, and expert opinion supported by facts. Substantial evidence does not include argument, speculation, unsubstantiated opinion or narrative, evidence that is clearly inaccurate or erroneous, evidence that is not credible, or evidence of economic or social impacts that do not contribute to or are not caused by physical environmental impacts. (*See Pub Res C §§21080(e), 21082.2(c); and 14 Cal Code Regs §§15064(f)(5)-(6), 15384.)* Moreover, under the substantial evidence test, a reviewing court may not reweigh the evidence, as it would if it were to apply the independent judgment test. A reviewing court is limited to determining whether the record contains relevant information that a reasonable mind might accept as sufficient to support the conclusion reached. All reasonable doubts must be resolved in favor of the agency's determination, and the court may not set aside the agency's decision even if the opposite conclusion is more reasonable. (*See Western States Petroleum Ass'n v Superior Court (1995) 9 C4th 559, 572; Laurel Heights Improvement Ass'n v Regents of Univ. of Cal., supra; San Diego Citizenry Group v County of San Diego (2013) 219 CA4th 1; Sierra Club v County of Napa (2004) 121 CA4th 1490, 1497; Defend the Bay v City of Irvine (2004) 119 CA4th 1261, 1267; Mira Mar Mobile Community v City of Oceanside (2004) 119 CA4th 477; Association of Irritated Residents v County of Madera (2003) 107 CA4th 1383, 1390; and Placer Ranch Partners v County of Placer (2001) 91 CA4th 1336, 1341*.) Finally, a lead agency's factual determinations are given substantial deference and are presumed correct; the challenger bears the burden of proving the contrary. (*See State Water Resources Control Bd. Cases (2006) 136 CA4th 674, 723; Sierra Club v County of Napa (2004) 121 CA4th 1490, 1497; San Franciscans Upholding the Downtown Plan v City & County of San Francisco (2002) 102 CA4th 656, 674; Save Our Peninsula Comm. v Monterey County Bd. of Supervisors (2001) 87 CA4th 99, 117; Barthelemy v*

Chino Basin Mun. Water Dist. (1995) 38 CA4th 1609, 1617; and Al Larson Boat Shop, Inc. v Board of Harbor Comm'rs (1993) 18 CA4th 729, 740.)

In light of the fact that all of the Proposed Revisions are directly related to the specific issues raised by the Planning Commission in its denial of the Proposed Project and input received from members of the public and the City Council at the December 7, 2021, public hearing, each of the Proposed Revisions were designed and intended to lessen the anticipated impacts of the Proposed Project from the levels initially identified in the Draft EIR. This has been accomplished through project-redesign, versus additional or modified mitigation measures. As such, none of the Proposed Revisions should trigger recirculation since they do not deprive the public of a meaningful opportunity to comment on either a substantial adverse environmental impact of the Proposed Project or a feasible project alternative or any mitigation measures that would clearly reduce the impact and that is not going to be implemented. In summary, in light the evidence set forth in this staff report and in the administrative record of these proceedings, there is substantial evidence in the record to support the determination that recirculation is unnecessary.

NOTIFICATION

Consistent with the City Municipal Code provisions, public notice was sent to all property owners of record within 600 feet of the Project Site, posted on the Project Site, and published in the Press Enterprise Newspaper.

ALTERNATIVES

1. Conduct the public hearing regarding the Proposed Project and adopt Staff's recommendation to certify the Final Environmental Impact Report and approve the Proposed Project. *Staff recommends this alternative as the applicant has made numerous revisions to the Proposed Project that address concerns of land use compatibility and reduces project environmental impacts beyond those analyzed in the Environmental Impact Report.*

2. Conduct the public hearing regarding the Proposed Project, and do not certify the Final Environmental Impact Report and deny the Proposed Project. *Staff does not recommend this alternative.*

FISCAL IMPACT

If the Proposed Project is approved, the City will receive the donation of a Community Park which is valued in the millions of dollars for the land and improvements alone.

ADMINISTRATIVE RECORD

All documents that are part of the Administrative record and/or referenced in the list of "Attachments" have been made available for public review and inspection on the City's website at www.moval.org.

PREPARATION OF STAFF REPORT

Prepared By:
Sean P. Kelleher
Planning Official

Department Head Approval:
Manuel A. Mancha
Community Development Director

CITY COUNCIL GOALS

Revenue Diversification and Preservation. Develop a variety of City revenue sources and policies to create a stable revenue base and fiscal policies to support essential City services, regardless of economic climate.

Public Safety. Provide a safe and secure environment for people and property in the community, control the number and severity of fire and hazardous material incidents, and provide protection for citizens who live, work and visit the City of Moreno Valley.

Public Facilities and Capital Projects. Ensure that needed public facilities, roadway improvements, and other infrastructure improvements are constructed and maintained.

Positive Environment. Create a positive environment for the development of Moreno Valley's future.

Community Image, Neighborhood Pride and Cleanliness. Promote a sense of community pride and foster an excellent image about our City by developing and executing programs which will result in quality development, enhanced neighborhood preservation efforts, including home rehabilitation and neighborhood restoration.

CITY COUNCIL STRATEGIC PRIORITIES

1. **Economic Development**
2. **Public Safety**
3. **Library**
4. **Infrastructure**
5. **Beautification, Community Engagement, and Quality of Life**
6. **Youth Programs**

Objective 1.1: Proactively attract high-quality businesses.

Objective 1.2: Market all the opportunities for quality industrial development in Moreno Valley by promoting all high-profile industrial and business projects that set the City apart from others.

Objective 1.3: Promote local hiring through the expansion of local, quality, high paying jobs, and workforce development efforts.

Objective 1.5: Showcase Moreno Valley’s unique assets.

Objective 1.6: Establish Moreno Valley as the worldwide model in logistics development.

ATTACHMENTS

To view large attachments, please click your "bookmarks" on the left hand side of this document for the necessary attachment.

2. Appeal Letter
3. Resolution - Final Environmental Impact Report EIR
4. Exhibits A through D to Resolution - Final Environmental Impact Report
5. Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan
6. Resolution - No Net Loss
7. Ordinance - Zone Change
8. Resolution - Accepting Community Benefits and Approving Park Agreement
9. Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at http://morenovalleyca.iqm2.com/Citizens/default.aspx)
10. Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment
11. Planning Commission Minutes of October 28, 2021
12. Moreno Valley Trade Center - Revised Project Evaluation
13. Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation
14. Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
15. Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation
16. Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
17. Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised Project Evaluation
18. Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation
19. Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation
20. Site, Elevation, and Landscape Plans
21. Preliminary Grading Plan
22. Tentative Parcel Map 37836
23. Planning Commission - Public Comments Packet
24. City Council - Public Comments Packet 1 of 3
25. City Council - Public Comments Packet 2 of 3
26. City Council - Public Comments Packet 3 of 3

27. Request for Public Hearing on April 18, 2023

APPROVALS

Budget Officer Approval	✓ Approved	4/12/23 8:12 AM
City Attorney Approval	✓ Approved	
City Manager Approval	✓ Approved	4/12/23 9:30 AM

GRESHAM | SAVAGE
ATTORNEYS AT LAW

Mark.Ostoich@GreshamSavage.com · San Bernardino Office
(909) 890-4499 · *fax* (909) 890-9877

November 10, 2021

VIA E-MAIL - manuelm@moval.org
AND HAND DELIVERED

Honorable Mayor and Members of the City Council
c/o Manuel A. Mancha, Community Development Director
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Re: Notice of Appeal of October 28, 2021, Planning Commission Denial of General Plan Amendment PEN19-0191 (Mun. Code, §§ 9.02.040.E; 9.02.240)

Honorable Mayor and Members of the City Council:

This firm represents MVTC, LLC ("**MVTC**") in connection with its application for the above-referenced General Plan Amendment (PEN19-0191) ("**GPA**") and associated entitlements for the proposed Moreno Valley Trade Center project ("**Project**"). The Project is situated on eleven parcels totaling approximately 80.04 acres located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard ("**Site**") in the City of Moreno Valley ("**City**"). In addition to the GPA, which proposes to change the land use designation for the Site from Residential 2 (R2) to Business Park (BP), the Project entitlements include: (i) Change of Zone (PEN19-0192) to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; (ii) Tentative Parcel Map No. 37836 (PEN19-0234) to merge the existing 11 parcels into a single parcel; and (iii) Plot Plan (PEN19-0193) to construct an approximately 1,328,853 square foot warehouse/distribution building on the Site (collectively, the "**Entitlements**").

On October 28, 2021, the Planning Commission voted 4-0, with Commission Cobian abstaining, to deny the GPA on the grounds that the Project was (i) inconsistent with the City's current 2040 General Plan and (ii) would result in significant environmental impacts to the surrounding community. As outlined more fully below, the Planning Commission's denial of the GPA, and the findings supporting that denial, are inadequate and insufficient to justify the Planning Commission's actions.

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

We respectfully request that this correspondence be included as part of the administrative record for this matter. We further request that the City Council hearing regarding the collective Project entitlements be scheduled together with the appeal hearing regarding the GPA. Given the recent election and uncertainty with the composition of the City Council, we also further request that the public hearing be scheduled for a date not earlier than the date of the second regular City Council meeting following the City Council meeting at which the newly elected Councilmember is officially seated. Finally, enclosed with this letter is a check in the amount of $750.00, as payment of the appeal processing fee for this matter.

In accordance with Municipal Code Sections 9.02.040.E and 9.02.240, MVTC respectfully submits this appeal of the Planning Commission's denial of the GPA for the following reasons:

The Planning Commission Erred in Finding That the GPA is Inconsistent with the 2040 General Plan

As noted above, the Project Site currently consists of 11 parcels (APN Nos. 488-340-002 through 012) totaling approximately 80.04 acres of land located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street and west of Redlands Boulevard. Although the area located across Encelia Avenue to the south of the Project Site includes an existing neighborhood of single-family homes,[1] the properties located to the north, northwest, northeast and east of the Site consist of existing/operational and industrially zoned properties, including the ALDI Distribution Center and vacant parcels designated for commercial/light industrial development within the previously approved World Logistics Center Specific Plan. Thus, with the exception of a single residential neighborhood to the south, the Project Site is surrounded on virtually all sides by existing and planned commercial/industrial uses.

Based on the foregoing considerations, City Staff found that the GPA was consistent with the existing General Plan. Specifically, Staff concluded: "While the purpose of the two land use designations [R2 and Business Park (BP)] are different, ***the proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east***." (Staff Report, p. 2 [emphasis added].) During the course of its discussion and deliberations, the Planning Commission failed to address or rebut Staff's finding or otherwise acknowledge the Project's consistency with the surrounding properties and land uses.

[1] The vacant parcels located west of the Site across the Quincy Channel are also zoned for future residential use (Residential Agriculture 2 (RA2) and Residential 5 (R5)); however, the ultimate development plan for these parcels remains uncertain.

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

In finding that the GPA was inconsistent with the City's 2040 General Plan, the Planning Commission did not (and could not) undermine Staff's conclusion, which is supported by actual substantial evidence that is in the record. For that reason, the Planning Commission's denial of the GPA based on the Project's alleged General Plan inconsistency fails scrutiny and must be reversed.

Furthermore, the Planning Commission members devoted considerable time during the October 28 hearing questioning why the 2040 General Plan had designated the Site for residential uses when MVTC's applications for the Entitlements were in process during the same approximately 2-year period that the 2040 General Plan was pending. First, as MVTC's applications for the Entitlements were not finalized or acted upon by the City before approval of the 2040 General Plan, the City could not have affirmatively modified the land use plan for the 2040 General Plan to redesignate the Site as Business Park (BP). In addition, the previous designation for the Site under the 2006 General Plan was R2 residential. Therefore, contrary to statements made by the Planning Commission at the October 28 hearing, that the 2040 General Plan maintenance of the existing R2 land use designation was reflective of overwhelming community support for a long-term residential land use for the Site, all that the 2040 General Plan actually did was maintain the status quo.[2]

Finally, an argument could be made that any application for an amendment to the 2040 General Plan is ipso facto inconsistent with the General Plan, because by its very nature the GPA seeks to modify, change or "amend" the 2040 General Plan itself. This logic would turn the entire General Plan amendment process on its head and render fatal any application for an amendment to the General Plan, regardless of the merits of the application. Thus, this finding standing alone is not valid or sufficient to justify denial of the GPA.

Based on the foregoing, the GPA and Project at large are wholly consistent with the 2040 General Plan. The Planning Commission's findings to the contrary are not supported by substantial evidence (or any evidence for that matter) and should be rejected and reversed by the City Council.

[2] This is further supported by the fact that only eight (8) individuals spoke out in opposition to the Project at the October 28 hearing and several of them appeared in their capacity as representatives of region-wide environmental and political activist groups rather than as concerned community residents.

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

The Planning Commission Prejudiced the Project by Making it a Symbol for All Industrial Development in the City

In addition to the above, the Planning Commission (particularly, Commissioners Sims and DeJohnette) made several statements regarding the volume of existing and proposed industrial warehouse projects in the City and questioned whether the City has become sufficiently "saturated" as to warrant putting an end to all industrial development in the City. These comments, which were reiterated several times by individual members of the Planning Commission, unfairly conflated the proposed Project and GPA with other previously approved projects and created an unfair bias among the Planning Commissioners regarding the Project. In other words, the Planning Commission's consideration of the Project, and subsequent action on October 28 to deny the GPA, was based not solely on the merits of the Project itself and a response to specific fact-based concerns with the MVTC Project; but, rather as a greater response (and rebuke) to industrial development in the City as a whole.[3] The effect of this was to unfairly prejudice the Planning Commission's consideration of the Project in violation of MVTC's constitutional due process rights to a fair and unbiased hearing before neutral decisionmakers.

The Planning Commission Erred in Denying the GPA Based on the Alleged Environmental Impacts of the Project Because These Impacts Are Minor in Nature, Significantly Reduced by the Project's Mitigation and Design Measures, and Substantially Outweighed by the Project's Benefits

The Planning Commission's second basis for denying the GPA was premised on the alleged significant environmental effects of the Project. The underlying rationale and findings made in support of this ground for denial cannot be reconciled with the Project's environmental document (which the Commission freely acknowledged they had not read) or the extensive mitigation and design measures and community benefits of the Project. Therefore, denial of the GPA must be reversed.

As explained in detail in the Project Final Environmental Impact Report ("**EIR**"), *which the Planning Commissioners freely acknowledged they had **not** read prior to the October 28 hearing*,[4] the Project includes numerous mitigation measures that are designed to and

[3] The Planning Commission, of course, failed to acknowledge that all industrial development projects that had been approved to date were considered, vetted and ultimately approved by the Commission itself. The irony of the situation was apparently lost on them.

[4] The fact that the Planning Commission failed to take the time to review the Project's environmental documents directly undermines the Commissioners' determination that the potential environmental impacts of the Project justify denial of the GPA. The Planning Commission had no factual foundation upon which to base their findings regarding the

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

will effectively reduce the level of potential environmental impacts of the Project. However, after application of all feasible mitigation measures, the Project would nonetheless result in a "***few***" significant and unavoidable environmental effects that cannot be mitigated to a level of insignificance, including with respect to: (i) Aesthetics (adverse effect on a scenic vista); (ii) Air Quality; and (iii) Greenhouse Gas (GHG) Emissions. (Staff Report, p. 11 [emphasis added].)

In denying the GPA based on the alleged environmental impacts of the Project, the Planning Commission ignored and disregarded the multitude of mitigation measures that were identified in the Project EIR as means of reducing the Project's anticipated environmental impacts. Although some of these impacts remain unavoidable, they are significantly less than would occur without implementation of the mitigation measures that will be imposed on the Project.

As noted by City Staff in the Staff Report, the extent to which the Project's impacts exceed the applicable thresholds for a finding of significant and unavoidable impact are slim and the number of such unavoidable impacts in total are extremely minor when compared to the total scope of the Project and number of potential impact areas. (Staff Report, p. 11.) The reduced impacts are a direct result of the extensive mitigation measures and conditions of approval imposed on the Project, as well as the community benefits offered by MVTC in conjunction with the Project submittal.

In addition, as discussed in detail in the Staff Report, the California Environmental Quality Act (Pub. Resources Code, §§ 21000, et seq.) ("**CEQA**") allows a local agency such as the City to weigh the Project's benefits against its unavoidable environmental risks and in doing so find the adverse impacts "acceptable" if the benefits outweigh those effects, by adopting a statement of overriding considerations. (Pub. Resources Code, § 21081(b); CEQA Guidelines § 15093(a); see also *Cherry Valley Pass Acres & Neighbors v City of Beaumont* (2010) 190 Cal.App.4th 316, 356-358. In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project, such as the need to create new jobs, provide housing, generate taxes, and the like." (*Id*., at p. 356 [internal citations omitted].)

Here, City Staff expressly determined that, balancing the benefits of the Project against the minor unavoidable effects, the Planning Commission should recommend that the City Council find that any one of the Project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations proposed for the

---

Project's potential environmental impacts. Contrary to the Planning Commission's belief, the large size of a staff report and CEQA document for a proposed project does not justify a failure to review the materials or constitute substantial evidence supporting denial of the project.

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

Project. The benefits of the Project, which are numerous and substantial, include the following:

1. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

2. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.

3. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.

4. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and approximately 2,000 new on-site jobs under the e-commerce/fulfillment option.

5. Approval of the Project will result in the development and operation of a state-of- the- art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.

6. Approval of the Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.

7. Approval of the Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

8. Approval of the Project will facilitate the development of long-standing underutilized and vacant land.

The above-described list of Project benefits does **not** include the extensive list of voluntary community benefits that MVTC has offered to provide to the City in conjunction with the Project. These additional Project benefits ***were not required either as mitigation measures or conditions of approval for the Project. These voluntary community benefits include, among others, the following:***

- Contributing up to $204,000.00 to fund and administer an electric vehicle grant program, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, and Local Delivery and Passenger Electric Vehicles.

- Providing $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park.

- Requiring that only electrical appliances be used in building office areas and that all construction equipment meet or be cleaner than Tier 4 standards, except in certain circumstances, and prohibiting the use of portable or stationary diesel-powered generators unless necessary due to emergency situations or constrained supply.

- Construction of multi-use trails around the east and west sides of the Project Site for use by local residents and the community.

- Providing enhanced landscaping, setbacks from residences and construction of noise mitigation walls to minimize the Project's operational effect on the surrounding areas.

The Planning Commission's denial of the GPA based on the Project's alleged environmental impacts was made in a vacuum and without reference to the mitigation measures and community benefits that, individually and collectively, reduce or offset these impacts and ultimately provide greater community benefits to the City. Nor was there any factual or evidentiary foundation to support the Planning Commission's findings of denial, as the Commissioners freely acknowledged not having read or reviewed the Project EIR or related materials. For these reasons, the Planning Commission's denial of the Project based on its potential environmental impacts is

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

unsupported by substantial evidence (or any evidence for that matter) and should be reversed by the City Council.

Conclusion

The Planning Commission's denial of the GPA was not supported by valid findings and is devoid of any legitimate basis. Therefore, MVTC respectfully requests that the City Council overturn the Planning Commission's denial of the GPA and approve the Entitlements for the Project.

MVTC reserves the right to submit additional grounds in support of the appeal of the Planning Commission's decision prior to and during any subsequent City Council hearing on the matter.

We appreciate the City's processing of this appeal and look forward to a just and fair hearing on the Project before the City Council. Please contact me if you have any questions or wish to discuss this matter further.

Very truly yours,

Mark A. Ostoich, of
GRESHAM SAVAGE
NOLAN & TILDEN,
A Professional Corporation

MAO/PHG/tdg
Enclosure

cc: Pat Jacquez-Nares, City Clerk*
Mike Lee, City Manager*
Steve Quintanilla, Esq. City Attorney*
Sean P. Kelleher, Planning Official *
Gabriel Diaz, Associate Planner*
Client*

(* via e-mail only)

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

City of Moreno Valley
520663

Customer Copy
US Industrial Club V, LP (16000)

Check No. 50711
Check Date 11/04/2021

Stub 1 of 1

Invoice Number	Date	Description	Gross Amount	Deductions	Amount Paid
110321.750.00	11/03/21	PC Appeal Fee	750.00		750.00
TOTALS			**$750.00**	**$0.00**	**$750.00**

US Industrial Club V, LP
3000 Turtle Creek Blvd
Dallas TX 75219

JPMorgan Chase Bank, N.A.
Dallas, TX
32-61
1110

CHECK NO. 50711

520663

Date	Amount
11/04/2021	$ ****750.00

Void if Not Cashed in 90 Days

SEVEN HUNDRED FIFTY AND 00/100********** **DOLLARS**

Pay To The Order Of:
City of Moreno Valley
14177 Frederick St.
Moreno valley CA 92553

BY _____
Authorized Signature

⑈050711⑈ ⑆111000614⑆ 525676638⑈

Attachment: Appeal Letter (6209 : Moreno Valley Trade Center/Park)

RESOLUTION NO. 2023-__

A RESOLUTION OF THE MORENO VALLEY CITY COUNCIL APPROVING AND ADOPTING A MITIGATION, MONITORING AND REPORTING PROGRAM AND STATEMENT OF OVERRIDING CONSIDERATIONS AND CERTIFYING THE FINAL ENVIRONMENTAL IMPACT REPORT FOR THE MORENO VALLEY TRADE CENTER PROJECT

(Assessor Parcel Nos. 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, after taking into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021, public hearing, the Applicant submitted various revisions ("Proposed Revisions") to the Proposed Project that the Applicant represents are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the Proposed Revisions presented by the Applicant require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021, City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised per the Proposed Revisions; and

WHEREAS, pursuant to the California Environmental Quality Act ("CEQA") (Public Res. Code, § 2100 *et seq.*) and the CEQA Guidelines (14 CCR § 15000 *et seq*.), the City is the "lead agency" for the Proposed Project; and

WHEREAS, the City as lead agency determined during the initial processing of the Proposed Project that it could have potentially significant effects on the environment, requiring the preparation of an Environmental Impact Report pursuant to CEQA in order to analyze all potential adverse environmental impacts of the Proposed Project; and

WHEREAS , the City issued a Notice of Preparation ("NOP") of a Draft EIR on March 16, 2020, and circulated the NOP for a period of 30 days, pursuant to the CEQA Guidelines; and

WHEREAS, pursuant to CEQA Guidelines section 15082, the City solicited comments from potential responsible agencies, including details about the scope and content of the environmental information related to each responsible agency's respective area of statutory responsibility; and

WHEREAS, comment letters/emails were received by the City in response to the NOP, which assisted the City in narrowing the issues and alternatives for analysis in the

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Draft EIR; and

WHEREAS, a public scoping meeting was also held on April 8, 2020, to familiarize the public with the Proposed Project and the environmental review process and to receive input as to the scope of the Draft EIR and issues of community concern; and

WHEREAS, pursuant to Public Resources Code section 210092, public notices announcing availability of the Draft EIR was mailed to interested parties, an advertisement was published in the Press Enterprise (a newspaper of general circulation in the City), and copies of the Draft EIR and its Technical Appendices were made available for public review and inspection at the locations identified in the public notices; and

WHEREAS, the Draft EIR circulated for review and comment by the public and other interested parties, agencies, and organizations on May 24, 2021, for a 45-day public review period, which commenced upon the filing of the Notice of Completion and Availability with the State Office of Planning and Research; and

WHEREAS, during the 45-day public review period, the City consulted with and requested comments from all responsible and trustee agencies, other regulatory agencies and others pursuant to CEQA Guidelines section 15086; and

WHEREAS, the City responded to all of the comments received by the City during the public review period; and

WHEREAS, the City prepared the Final EIR and, pursuant to Public Resources Code section 21092.5, the City provided copies of the Final EIR to all commenting persons and agencies; and

WHEREAS, the Final EIR sufficiently analyzes both the feasible mitigation measures necessary to avoid or substantially lessen the Proposed Project's potential environmental impacts and a range of feasible alternatives capable of eliminating or reducing these effects in accordance with CEQA and the CEQA Guidelines; and

WHEREAS, the Findings of Fact, attached hereto as Exhibit A, prepared for the Proposed Project conclude that the proposed mitigation measures, as set forth the Mitigation Monitoring and Reporting Program, attached hereto as Exhibit B, are feasible and constitute a binding set of obligations that will take full effect upon the City Council's certification of the Final EIR; and

WHEREAS, the City Council, after considering and weighing the economic, planning, social, aesthetic, and environmental benefits of the Proposed Project against the Proposed Project's unavoidable adverse impacts, has determined that the benefits of the Proposed Project outweigh the potential unavoidable adverse impacts; and

WHEREAS, pursuant to CEQA Guidelines Section 15093, the City prepared a Statement of Overriding Consideration, attached hereto as Exhibit C, that provides that any significant adverse effects of the Proposed Project are acceptable since the expected benefits of the Proposed Project outweigh Proposed Project's unavoidable adverse

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

environmental impacts; and

WHEREAS, the City has fulfilled its duties as lead agency pursuant to CEQA and the CEQA Guidelines and it has been determined by staff that the Final EIR is sufficiently detailed so that all of the potentially significant environmental effects of the Proposed Project have been adequately evaluated; and

WHEREAS, on June 21, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the item was scheduled for consideration by the City Council; however, the meeting was canceled and adjourned to December 6, 2022, with no action being taken; and

WHEREAS, on December 6, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on April 18, 2023, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Final EIR, the attached Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, the Final EIR reflects the independent judgment of the City Council and is deemed adequate for purposes of making decisions on the merits of the Project.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;

(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code;

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;
(d) Proposed Project's Final Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations, attached hereto respectively as Exhibits B and C;
(e) Findings of Fact, as attached hereto as Exhibit A;
(f) Proposed conditions of approval for the Proposed Project;
(g) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(h) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;
(i) Staff Reports prepared for the City Council for the November 15, 2022 public hearing;
(j) Staff Reports prepared for the City Council for the December 6, 2022 public hearing;
(k) Staff Reports prepared for the City Council for the April 18, 2023 public hearing;
(l) Staff's presentation at the December 7, 2021 and April 18, 2023 City Council public hearings;
(m) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and April 18, 2023 public hearings; and
(n) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021, June 21, 2022, November 15, 2022, December 6, 2022, and April 18, 2023 public hearings.

Section 4. Findings Regarding Recirculation

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the issue of Recirculation:

(a) That the Proposed Revisions, which are characterized as a "Comprehensive Project Redesign of the Proposed Project" (rather than mitigation) include a variety of changes to the Proposed Project that are intended specifically to reduce the impacts of the Proposed Project as originally described in the Draft EIR through project redesign;

(b) That the various findings and determinations articulated in the recently prepared and updated technical studies, reports and evaluations, attached to the Staff Report, which include but not limited to the following: 1) Revised Project Evaluation; 2) Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluations; 3) Traffic Impact Analysis Evaluations; 4) Noise Summaries; and 5) Hydrology Calculations, confirm that the Proposed

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Revisions do not: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; nor 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR;

(c) That the Proposed Revisions will effectively benefit the neighboring residents, through reducing noise, traffic and air quality impacts on neighbors by: 1) reducing building size by 65,000+ square feet; 2) eliminating driveways on Encelia Avenue which will remove 650 daily vehicles on Encelia Avenue; 3) eliminating truck traffic on Redlands Boulevard, south of Eucalyptus Avenue; 4) improving visual and noise screening prior to trees reaching full size; 5) eliminating 11 dock doors from the Proposed Project's design; and 6) adding a new approximately 35 foot-tall earthen berm on the southern side of the Project Site;

(d) That the revised onsite circulation will direct trucks to access the Project Site from Eucalyptus Avenue only which means that no trucks from the Project Site will travel on Redlands Boulevard, south of Eucalyptus Avenue as was originally proposed, and that by designating the northern driveway on Redland Boulevard to "Automobile-Only," traffic traveling southbound toward Encelia Avenue, traffic will be reduced by 35% of what was originally proposed in the Draft EIR;

(e) That the addition of the approximately 35-foot berm to the southern portion of the Project Site will also result in major changes that will significantly lessen the Proposed Project's aesthetic impacts since: 1) it will completely block views of both the existing warehouses north of Eucalyptus Avenue and the Proposed Project from the adjacent neighborhood; 2) it will be landscaped with 24-inch box trees consisting of Blue Palo Verde, Desert Willow, California Sycamore, Coast Live Oak, Afghan Pine, and Canary Island Pine; and 3) only landscaping will then be visible from Encelia Avenue since the screen wall will be behind the berm;

(f) That the berm will also lessen the anticipated noise impacts, as originally described in the Draft EIR, in that: 1) the berm will drastically reduce sound below levels in prior design by reducing the noise level by an additional 26% from what was originally projected in the Draft EIR; 2) the berm will reduce the estimated project noise levels to 35.5 decibels (equivalent to "Quiet Suburban Nighttime or Quiet Urban Nighttime") at the Encelia residential neighborhood, which is significantly lower than the ambient noise levels of 41.7 decibels (dBA Leq) that exist today within the neighborhood; and 3) the berm will serve as a noise cancelling mitigation measure related to ambient noise caused by back-up alarms mandated by OSHA and local regulations;

(g) That there are no changes needed to the analysis or mitigation measures contained in the Final EIR; and

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

(h) That the public has not been deprived of a meaningful opportunity to comment on either a substantial adverse environmental impact of the project or a feasible project alternative or mitigation measure that would clearly reduce the impact and that is not going to be implemented.

Section 5. Findings Regarding Mitigation Measures and Mitigation Monitoring & Reporting Program

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Mitigation Measure and Mitigation Monitoring & Reporting Program:

(a) That the Proposed Project's mitigation measures are proposed to reduce the level of potential environmental impacts of the Proposed Project;

(b) That the mitigation measures have been incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR;

(c) That the purpose of the Mitigation Reporting and Monitoring Program is to ensure that Proposed Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms; and

(d) That because mitigation measures are incorporated into the Proposed Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Proposed Project's mitigation measures.

Section 6. Findings Regarding Statement of Overriding Considerations

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Statement of Overriding Considerations:

(a) That although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the Proposed Project, after the application of all feasible mitigation measures, that the Proposed Project would result in a few significant and unavoidable environmental effects;

(b) That the following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions;

(c) That details of these significant unavoidable adverse impacts are discussed

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings, attached hereto as Exhibit A;

(d) That when balancing the benefits of the Proposed Project against the unavoidable effects which remain, the City Council finds that any one of the following benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations:

i. Approval of the Proposed Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics;

ii. Approval of the Proposed Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region;

iii. Approval of the Proposed Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Proposed Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary;

iv. Approval of the Proposed Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option;

v. Approval of the Proposed Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses;

vi. Approval of the Proposed Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day;

vii. Approval of the Proposed Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods; and

viii. Approval of the Proposed Project will facilitate the development of long-standing underutilized and vacant land.

Section 7. Findings Regarding Final Environmental Impact Report

That based on the foregoing Recitals and the Evidence, and the additional related Findings set forth herein, the City Council makes the following findings with respect to the Final Environmental Impact Report:

(a) That pursuant to Public Resources Code section 21090.4 and CEQA Guidelines sections 15082 – 15083, the City solicited the views of responsible agencies and certain other public agencies regarding the scope and content of the Draft EIR via a Notice of Preparation of the Draft EIR;

(b) That pursuant to Public Resources Code sections 21080.4 and 21092.3, a copy of the Notice of Preparation also must be mailed to the State Office of Planning and Research and posted in the office of the Riverside County Clerk;

(c) That pursuant to CEQA Guidelines sections 15082(c) and 15083, the City held a scoping meeting to consult with responsible and trustee agencies, the public and other interested parties;

(d) That pursuant to Public Resources Code sections 21080.3.1 – 21080.3.2, the provided formal written notification to any tribe that has requested notice of projects within its traditionally and culturally affiliated area;

(e) That the Draft EIR was prepared and circulated to the public and affected public agencies for review and comments for a 45-day pubic review period and the Final EIR, including the comments submitted and responses to those comments, was prepared;

(f) That pursuant to Public Resources Code section 21092(b)(1), a Notice of Completion was prepared and it included a description of how the draft EIR can be obtained in electronic format;

(g) That pursuant to Public Resources Code section 21091(d)(2) and CEQA Guidelines section 15088, written comments received during the public review period for the Draft EIR were responded to in writing;

(h) That pursuant to Public Resources Code section 21091(d)(2)(B) and CEQA Guidelines section 15088, the responses to comments provided reasoned, good faith analyses regarding all significant environmental issues raised in

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

the EIR comments;

(i) That pursuant to Public Resources Code section 21100 and CEQA Guidelines sections 15120-15132, the Final EIR accurately describes the Proposed Project; identifies and analyzes each significant environmental impact expected to result from the Proposed Project; identifies mitigation measures to reduce those impacts to the extent feasible; evaluates a range of reasonable alternatives to the Proposed Project; and includes a statement indicating the reasons for determining that any effects on the environment are not significant and, thus, have not been discussed in detail;

(j) That pursuant to CEQA Guidelines section 15132, the Final EIR consists of the Draft EIR with any revisions made following its circulation for public review, the comments received on the Draft EIR, a list of persons and entities commenting on the Draft EIR, and the City's responses to comments;

(k) That pursuant to CEQA Guidelines section 15090(a) the Final EIR was completed in compliance with CEQA and was reviewed and considered by the City Council before approval of the Proposed Project; and

(l) That the Final EIR is complete and adequate; and

(m) That pursuant to Public Resources Code section 21082.1(c)(3) and CEQA Guidelines section 15090(a)(3), the Final EIR reflects the independent judgment of the City and City Council.

Section 8. Non-Recirculation Determination

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby determines that the Draft EIR was not subject to recirculation since there was no "significant new information" added to a Draft EIR after the expiration of the public comment period but before certification.

Section 9. Approval and Adoption of Mitigation Measures and Mitigation Monitoring & Reporting Program

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby approves and adopts the Mitigation Measures and Mitigation Monitoring & Reporting Program, attached hereto as Exhibit B.

Section 10. Approval and Adoption of Statement of Overriding Considerations

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, the City Council hereby approves and adopts the

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Statement of Overriding Considerations, attached hereto as Exhibit c.

Section 11. Certification of Final Environmental Impact Report

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth herein, and approval and adoption of the Mitigation Measures and Mitigation Monitoring & Reporting Program, attached hereto as Exhibit B, and the Statement of Overriding Considerations, attached hereto as Exhibit C, the City Council hereby certifies the Final Environmental Impact Report, attached hereto as Exhibit D, which is complete and adequate and reflects the independent judgment of the City and City Council.

Section 12. Notice of Determination

That pursuant to CEQA Guidelines sections 15075 and 15094, staff shall file a Notice of Determination within 5 working days after approval of the Proposed Project which shall include: a brief description of the Proposed Project; the identity of the lead agency; the identity of any project applicant or, if different from the applicant, the identity of the person undertaking the project; and statements regarding whether the Proposed Project will result in a significant environmental impact, whether any mitigation measures were adopted, and whether a mitigation monitoring and reporting plan was adopted.

Section 13. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 14. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 15. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 16. Certification

That the City Clerk shall certify to the passage of this Resolution.

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS 18th day of April, 2023.

_____
Ulises Cabrera, Mayor

ATTEST:

_____
Jane Halstead, City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Exhibits:
Exhibit A: Statement of Facts and Findings
Exhibit B: Mitigation Monitoring and Reporting Program
Exhibit C: Statement of Overriding Considerations
Exhibit D: Final Environmental Impact Report

Attachment: Resolution - Final Environmental Impact Report EIR [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2023-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, APPROVING GENERAL PLAN AMENDMENT (PEN19-0191), TENTATIVE PARCEL MAP (PEN19-0234), AND PLOT PLAN (PEN19-0193) FOR THE DEVELOPMENT OF A 1,263,271 SQUARE FOOT WAREHOUSE DISTRIBUTION/LOGISTICS CENTER KNOWN AS THE MORENO VALLEY TRADE CENTER PROJECT LOCATED AT EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL

(APN'S 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234 is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an

approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the item was scheduled for consideration by the City Council; however, the meeting was canceled and adjourned to December 6, 2022, with no action being taken; and

WHEREAS, on December 6, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on April 18, 2023, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

WHEREAS, on April 18, 2023, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution No. 2023-____ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached Exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19- 0193) and all documents, records and references contained therein;
(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;
(e) Proposed conditions of approval for the Proposed Project;
(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(g) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;
(h) Staff Reports prepared for the City Council for the November 15, 2022 public hearing;
(i) Staff Reports prepared for the City Council for the December 6, 2022 public hearing;
(j) Staff Reports prepared for the City Council for the April 18, 2023 public

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

hearing;

(k) Staff's presentation at the December 7, 2021 and April 18, 2023 City Council public hearings;

(l) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and April 18, 2023 public hearings; and

(m) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021, June 21, 2022, November 15, 2022, December 6, 2022, and April 18, 2023 public hearings.

Section 4. Findings

That based on the foregoing Recitals and the Evidence, the City Council makes the following findings:

(a) That General Plan Amendment (PEN19-0191) is consistent with existing goals, objectives, policies and programs of the 2040 General Plan and will not adversely affect the public health, safety or general welfare;

(b) That the Proposed Project, which includes Plot Plan (PEN19-0193), is consistent with the goals, objectives, policies and programs of the 2040 General Plan; complies with all applicable zoning and other regulations and will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity; and the location, design and operation of the Proposed Project will be compatible with existing and planned land uses in the vicinity; and

(c) That Tentative Parcel Map (PEN19-0234) involves at least one parcel that is undeveloped by any structure for which a building permit was issued and is consistent with the 2040 General Plan.

Section 5. Approval

That based on the foregoing Recitals, Evidence contained in the Administrative Record and Findings set forth above, the City Council hereby approves 1) General Plan Amendment (PEN19-0191), 2) Tentative Parcel Map (PEN19-0234), and 3) Plot Plan (PEN19-0193) subject to the respective conditions of approval as set forth in Exhibit A, attached hereto, and the mitigation measures set forth in the Mitigation Monitoring and Reporting Program approved by the City Council through the adoption of Resolution No.2023-___.

Section 6. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 7. Severability

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 8. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 9. Certification

That the City Clerk shall certify to the passage of this Resolution.

PASSED AND ADOPTED THIS 18th day of April, 2023.

_____
Ulises Cabrera, Mayor

ATTEST:

_____
Jane Halstead, City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Exhibits:
Exhibit A: Conditions of Approval for 1) General Plan Amendment (PEN19-0191), 2) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

EXHIBIT A

CONDITIONS OF APPROVAL

[To be attached]

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

CITY OF MORENO VALLEY
CONDITIONS OF APPROVAL
Tentative Parcel Map (PEN19-0234)
Plot Plan (PEN19-0193)

COMMUNITY DEVELOPMENT DEPARTMENT

Planning Division

1. A change or modification to the land use or the approved site plans may require a separate approval. Prior to any change or modification, the property owner shall contact the City of Moreno Valley Community Development Department to determine if a separate approval is required.

2. Any expansion to this use or exterior alterations will require the submittal of a separate application(s) and shall be reviewed and approved under separate permit(s). (MC 9.02.080)

3. The developer, or the developer's successor-in-interest, shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust. (MC 9.02.030)

4. This approval shall expire three years after the approval date of this project unless used or extended as provided for by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever. Use means the beginning of substantial construction contemplated by this approval within the three-year period, which is thereafter pursued to completion, or the beginning of substantial utilization contemplated by this approval. (MC 9.02.230)

5. Applicant/Developer shall defend, indemnify and hold harmless City, city council, commissions, boards, subcommittees and City's elected and appointed officials, commissioners, board members, officers, agents, consultants and employees ("City Parties") from and against any and all liabilities, demands, claims, actions or proceedings and costs and expenses incidental thereto (including costs of defense, settlement and reasonable attorneys' fees), which any or all of them may suffer, incur, be responsible for or pay out as a result of or in connection with any challenge to the legality, validity or adequacy of any of the following items: (i) any agreements by and among City and Developer including without limitation any Development Agreement, (ii) any and all permits, licenses and entitlements approved by City; (iii) any environmental determination made by City in connection with the Project Site or Project; and (iv) any proceedings or other actions undertaken by City in connection with the adoption or approval of any of the above.

6. The site shall be developed in accordance with the approved plans on file in the Community Development Department - Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Planning Official. (MC 9.14.020)

7. Any signs indicated on the submitted plans are not included with this approval. Any signs, whether permanent (e.g. wall, monument) or temporary (e.g. banner, flag), require separate application and approval by the Planning Division. No signs are permitted in the public right of way. (MC 9.12)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

8. All site plans, grading plans, landscape and irrigation plans, fence/wall plans, lighting plans and street improvement plans shall be coordinated for consistency with this approval.

Special Conditions of Approval Offered by the Project Applicant/Developer

The Project Applicant/Developer offered to provide the benefits set forth below, as enforceable special conditions of approval. As such, none of the following special conditions of approval shall be considered Mitigation Measures under CEQA.

9. Heavy Duty Electric Truck Grant Program - $125,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $125,000 for the purpose of providing grants to private third parties for the purchase of at least five Class 8 Heavy Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Heavy Duty Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor, and shall give special priority for drayage trucks that will be used in the City of Moreno Valley and along the Highway 60 corridor. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Heavy Duty Electric Truck Grants shall include the following two conditions:
(1) a prohibition on the resale of the Heavy Duty Electric Truck to an entity that will operate trucks outside of California; and (2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Heavy Duty Electric Truck that has been funded by the Program.
(2) The Developer shall be responsible for establishing, funding and administering the Heavy Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

10. Medium Duty Electric Truck Grant Program - $27,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit.
$27,000 for the purpose of providing grants to private third parties for the purchase of at least two Class 6 and/or Class 7 Medium Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Medium Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor. Only if there is no demand for Class 6 and Class 7 Medium Duty Electric Trucks, shall the grants be provided for the purchase of Class 4 and Class 5 Medium Duty Electric Trucks, with priority given to Class 5 over Class 4 Medium Duty Electric Trucks. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Medium Duty Electric Truck Grants shall include the following two conditions:
(1) a prohibition on the resale of the Medium Duty Electric Truck to an entity that will operate trucks outside of California; and
(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Medium Duty Electric Truck that has been funded by the Program.
The Developer shall be responsible for establishing, funding and administering the Medium Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

11. Local Delivery Electric Vehicle Program - $27,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

trust account or escrow account in which Developer shall deposit $27,000 for the purpose of providing grants to private third parties for the purchase of at least three Local Delivery Electric Vehicles (generally referred to as Class 1, 2, and 3 trucks) for use for deliveries within the City of Moreno Valley and the immediate vicinity.
The Program shall prioritize grant applicants who occupy buildings situated within the Project Site that are located the closest to any developed residential areas and intend to use the grant proceeds to purchase the highest class of Class 1, 2, and 3 trucks for which there is demand.
The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Local Delivery Electric Truck Grants shall include a condition that requires that 50% of the mileage must occur in Moreno Valley and the Highway 60 corridor, which shall be enforced using a geo-fencing electronic system on each Local Delivery Electric Vehicle that has been funded by the Program.
The Developer shall be responsible for establishing, funding and administering the Local Delivery Electric Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

12. Electric Passenger Vehicle Grant Program - $25,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $25,000 for the purpose of providing 25 $1,000 grants to Moreno Valley residents for the purchase of electric passenger vehicles.
The Program shall prioritize grant applicants who occupy households earning not more than 150% of the Area Median Income, as calculated by the U.S. Department of Housing and Urban Development.
The Developer shall be responsible for establishing, funding and administering the Electric Passenger Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

13. Electric Vehicle Advocacy Fund - $5,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non -profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of electric vehicles and /or provides outreach, education, and training on the maintenance of zero -emissions vehicles.
Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.
The Developer shall be responsible for establishing, funding and administering the Electric Vehicle Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

14. Solar Advocacy Fund - $5,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non -profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of solar -generated electricity and/or provides outreach, education, and

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

training on the installation and maintenance of solar panels and equipment.
Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.
The Developer shall be responsible for establishing, funding and administering the Solar Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

15. Residential Air Filtration Reimbursement Program - $40,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $40,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing non-portable air filtration systems including any necessitated HVAC modification, not exceeding $5,000 per home, as follows: (a) the homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001); and

(b) the homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the air filtration system, not exceeding $5,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Air Filtration System Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Air Filtration System Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

16. Residential Noise Insulation Reimbursement Program - $64,000
Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $64,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing noise

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

insulation measures, not exceeding $8,000 per home, as follows:

a. the homeowner's home is an eligible home with the following address:
- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001), and

b. the homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the noise insulation, not exceeding $10,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Noise Insulation Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Noise Insulation Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

17. Residential Exterior Pressure Washing Reimbursement Program - $4,000

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 4,000 for the purpose of reimbursing each homeowner for exterior pressure washings of the first two rows of homes on the south side of Encelia Avenue up to $ 500 per house during any on-site or off-site grading activities, not exceeding a total sum of $4,000.

The Developer shall be responsible for establishing, funding and administering the Residential Exterior Pressure Washing Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

18. Onsite EV Chargers and APU Plug-Ins

Prior to the issuance of the first Certificate of Occupancy for the Project, the Developer at its own cost shall install at a minimum, 12 onsite EV charging stations. In addition, prior to the issuance of the first Certificate of Occupancy for the Project, the Developer shall install at its own cost at least one APU plug -in for every 35 dock doors at multiple locations within the Project Site where trucks park, with signage that identifies in English and Spanish where such APU plug-ins are located. Signage at each EV parking space shall also state that the EV parking space is for EVs only and improperly parked vehicles shall be towed.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

19. LEED Silver Certification Standards
The Developer shall design the Project's main building's shell and core to meet the Leadership in Energy and Environmental Design (LEED)-equivalent "Silver" Certification standards. If the Developer advertises any building within the Project Site as having LEED Silver Certification, it shall apply for and obtain such certification prior to distributing or publishing any such advertisement. If LEED Silver Certification is granted, notice shall be provided to the City and any interested parties submitting a written request for proof of LEED Silver Certification.

20. Electrical Appliances
Only electric appliances shall be used in building office areas (e.g., electric stoves).

21. Diesel Powered Generators
The use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply.

22. Construction Equipment
All construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project.
In the event that any portable or stationary diesel-powered construction equipment becomes available with improved emission control devices that reduce particulate matter emissions, including fine particulate matter, and reduces NOx emissions at commercially reasonable prices, and in sufficient quantities to be reasonably available, then the Developer may cause the use of such construction equipment. Otherwise, no stationary or portable diesel-powered generators may be used, during construction, unless necessary due to emergency situations or constrained supply.

23. Lighting Program
The Developer shall establish a Lighting Program that incorporates the following: (a) implements measures that are intended to reduce light and glare to maximum extent practicable; (b) implements a lighting program in compliance with International Dark Sky Association standards, except where doing so would violate safety requirements or federal, state, county or City regulations; (c) requires all exterior lighting, including street lights, to be 2,700 Kelvin; (d) commands the installation of motion sensors on all interior lighting consistent with applicable Title 24 regulations; (e) mandates the installation of full cut-off luminaries on all buildings and poles situated within the Project Site; (f) orders the posting of signs on-site stating that truck head lights shall be turned off within five minutes of truck parking; (g) requires all construction lighting to be shielded and directed away from the Project's property lines; and (h) limits the height of all outdoor freestanding and wall-mounted lights to no more than 20 feet within 180 feet of the centerline of any public streets, except where doing so would violate safety requirements or any federal, state, county or City regulations.

24. Landscaping Requirements
The Developer shall plant at least 599 trees at the Project Site, consistent with the following:
a. Screening: Along the perimeter edges of the Project Site facing the existing residential neighborhood, it shall be developed to screen future buildings with walls, and/or landscaping. For all buildings along the perimeter edges of the Project Site, all buildings and roof mounted equipment shall be substantially screened by walls and/or landscaping which remains in a state of maturity and non -deciduous at all times of the year. "Substantially screened" means that while there might be some view of the

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

buildings looking through the foliage, the buildings will be mostly obscured from view.

b. Large Trees: At least 50% of the trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood shall be 24-inch box trees.

c. Evergreen Trees: Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 95% of all 24-inch box trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood. The 24-inch box evergreen trees shall be concentrated towards the higher topographic elevations within the perimeter edges of the Project Site to maximize screening.

d. Palm Trees: Palm trees may only be planted in accent areas only.

e. Accent Elements: To the extent practicable, in order to create visual interest, site contours shall vary and accent elements, such as boulders, which shall be placed along the frontage of the perimeter edges of the Project Site facing the existing residential neighborhood.

f. Layered Effect: Along the perimeter edges of the Project Site facing the existing residential neighborhood, trees shall be planted at varied depths from the Project Site's property line so that instead of creating a uniform and linear appearance, the planted trees create a layering effect as viewed from adjacent streets so as to maximize screening of buildings.

g. Maintenance: Trees shall be maintained in their natural form and shape with minimal pruning and all dead trees shall be promptly removed and replaced with similar type and size trees.

h. Parking Area Trees: Trees planted in the Project Site's parking areas shall be capable of achieving 50% shading within ten years of planting.

i. Invasive Non-Native Vegetation: Invasive non-native vegetation, such as certain grasses, shrubs, and sub-shrubs shall be removed from the Project Site as part of the Project's regular landscaping services.

j. Entire Site. Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 50% of all trees planted within the Project Site.

25. Trucks:

a. Drive Aisle Walls: All portions of truck circulation drive aisles that are visible from any existing home within 1,000 feet of the perimeter edges of the Project Site shall be shielded by walls at least 14 feet high, upon approval of the City to ensure no traffic safety issues are created. In no case, however, shall any such walls be lower than 12 feet high.

b. Turning Measures: The Developer shall design and install on -site physical improvements, including but not limited to curbs, street humps, street bumps or textured pavement, approved by the City, that discourage truck operators from turning their trucks in the wrong direction when entering or leaving the Project Site.

c. Directional Signage: The Developer shall install on-site signage clearly stating which directions trucks must turn at all streets exiting the Project Site.

26. Construction Activities:

a. No nighttime grading or outside construction between 6:00 p.m. and 7:00 a.m. shall be conducted within 1,000 feet of any existing home across the street along the perimeter edge of the Project Site, except if necessary for concrete pours.

b. The Developer shall provide notice to residents within 100 feet of any portion of the perimeter edge of the Project Site, at least one week prior to construction between 6:00 p.m. and 7:00 a.m.

c. Construction trucks shall be prohibited from using Encelia Street., other than for

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

infrastructure construction or necessary detours.

d. Lunch vendor services shall be provided on-site during the construction phase of the construction phase of the Project.

27. Parking:
    a. The Project shall include preferential parking for carpools and vanpools equal to 5% of the total number of on-site parking spaces.
    b. The Project shall include designated parking spaces for motorcycles.
    c. The Project shall provide sufficient on-site truck parking within the on-site parking areas to enable all trucks reasonably expected to visit the Project to park on-site (as determined by a qualified transportation engineer).

28. Rooftops:
Warehouse roof areas not covered by solar panels shall be constructed with materials with an initial installation Solar Reflective Index Value of not less than 39.

29. Trash Removal:
Trash removal within and along all perimeter edges of the Project Site shall occur at least weekly or within three business day of receipt of notification to any occupant of the Project or the Project's management or community ombudsman.

30. Developer agrees to augment the sign prohibiting truck traffic southbound on Redlands (said sign currently located at the NW corner of Eucalyptus and Redlands) to a larger size and more prominent design, subject to review and approval by City staff.

31. To reduce noise associated with the use of backup alarms, either ambient-sensitive self-adjusting backup alarms or manually adjustable alarms shall be used on all equipment in use on the project site that requires a backup alarm. Ambient-sensitive self-adjusting backup alarms shall be equipped to increase or decrease their volume based on background noise levels by self-adjusting to produce a tone that is readily noticeable over ambient noise levels, which is typically a minimum of 5 decibels above the ambient noise, but not so loud as to be a constant annoyance to neighbors. Close attention shall be given to the alarm's mounting location on the machine in order to minimize engine noise interference, which can be sensed by the alarm as the ambient noise level. An alarm mounted directly behind a machine radiator shall be equipped to sense the cooling fan's noise and adjust accordingly. If ambient backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the ambient backup alarm system. If manually-adjustable alarms are used, which eliminates the machine mounting location problem of the ambient-sensitive self-adjustable backup alarms, each such alarm shall be set at the beginning of each day and night shift. If manual backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the manual backup alarm system. Alternatively, backup movements can be supervised with a guide and flagging system if permitted under applicable OSHA regulations. If a flagging system is used, a log shall be maintained that describes the type of equipment used, if any, and the name of each flag person. <u>All Logs shall be retained for a minimum of 12-months and be readily available to the City of Moreno Valley for inspection purposes during normal business hours.</u>

32. The Developer shall make a $500,000 cash contribution to the Moreno Valley Community Foundation before a final Certificate of Occupancy is issued for any building or structure on the Project Site.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Special Conditions

33. The site has been approved for the construction of an approximate 1,263,271 square foot light industrial building with 214 dock doors with associated site and public improvements. A change or modification shall require separate approval.

34. Prior to grading plan approval, Basin fencing shall include wrought iron fencing with pilasters

35. This approval shall comply with all applicable requirements of the City of Moreno Valley Municipal Code.

36. The site shall be developed in accordance with the approved tentative parcel map on file in the Community Development Department -Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. (MC 9.14.020)

37. A drought tolerant landscape palette shall be utilized throughout the project in compliance with the City's Landscape Requirements. (9.17)

38. Prior to recordation of the final map, final median enhancement /landscape/irrigation plans shall be submitted to and approved by the Planning Division, and Public Works Department - Special Districts Division for review and approval by each division. (GP - Circulation Master Plan)

39. If potential historic, archaeological, Native American cultural resources, or paleontological resources are uncovered during excavation or construction activities at the project site, work in the affected area must cease immediately and a qualified person (meeting the Secretary of the Interior's standards (36CFR61)) shall be consulted by the applicant to evaluate the find, and as appropriate recommend alternative measures to avoid, minimize or mitigate negative effects on the historic, prehistoric, or paleontological resource. Determinations and recommendations by the consultant shall be immediately submitted to the Planning Division for consideration, and implemented as deemed appropriate by the Community Development Director, in consultation with the State Historic Preservation Officer (SHPO) and any and all affected Native American Tribes before any further work commences in the affected area.
If human remains are discovered during grading and other construction excavation, no further disturbance shall occur until the County Coroner has made necessary findings as to origin. If the County Coroner determines that the remains are potentially Native American, the California Native American Heritage Commission shall be notified within 5-days of the published finding to be given a reasonable opportunity to identify the "most likely descendant." The "most likely descendant" shall then make recommendations, and engage in consultations concerning the treatment of the remains (California Public Resources Code 5097.98). (GP Objective 23.3, CEQA).

40. All landscaped areas in perpetuity shall be maintained in a healthy and thriving condition, free from weeds, trash and debris. (MC 9.02.030)

41. Prior to issuance of building permit issuance, landscape plans (trees, shrubs and groundcover) for basins maintained by an HOA or other private entity shall be submitted to and approved by the Planning Division for the sides and /or slopes. A hydroseed mix w/irrigation is acceptable for the bottom of all the basin areas. All detention basins shall include trees, shrubs and groundcover up to the concreted portion of the basin. A solid decorative (e.g. split face, color variation, pattern variation, or as approved by the Planning Official) wall with pilasters, tubular steel fence with pilasters or other fence or wall approved by the Planning Official is required to

secure all water quality and detention basins more than 18 inches in depth.

42. This tentative map shall expire three years after the approval date of this tentative map unless extended as provided by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever in the event the applicant or any successor in interest fails to properly file a final map before the date of expiration. (MC 9.02.230, 9.14.050, 080)

43. Prior to the issuance of grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein.

44. Prior to any site disturbance and/or grading plan submittal, and or final map recordation, a mitigation monitoring fee, as provided by City ordinance, shall be paid by the applicant/owner. No City permit or approval shall be issued until such fee is paid. (CEQA)

45. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord.)

46. Prior to approval of any grading plan, local and master-planned multi-use trail easements shall be shown on the rough and precise grading plans in accordance with the City's Master Trail Plan.

47. Prior to final map recordation, or building permit issuance, subdivision phasing (including any proposed common open space or improvement phasing, if applicable), shall be subject to a separate Phasing Plan submittal for Planning Division approval. Any proposed phasing shall provide for adequate vehicular access to all lots in each phase as determined by the City Transportation Engineer or designee and shall substantially conform to all intent and purpose of the subdivision approval. (MC 9.14.080)

48. Prior to the issuance of any grading permits and prior to any physical disturbance of any natural drainage course, or any wetland determined to contain riparian vegetation, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Game and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to both the Planning Division and the Public Works Department - Land Development Division. (CEQA, State and Federal codes)

49. Prior to final map recordation any required trail easements shall be provided.

50. Prior to approval of a grading plan, a detailed trail plan shall be submitted to and approved by the Planning Division. The plan shall indicate widths, maximum slopes, physical conditions, fencing, walls, and/or amenities in accordance with City standards.

51. Prior to approval of any grading permit, a tree plan shall be submitted to and approved by the Planning Division. The plan shall identify all mature trees (4 inch trunk diameter or larger) on the subject property and City right -of-way. Using the grading plan as a base, the plan shall indicate trees to be relocated, retained, and removed. Replacement trees shall be shown on the plan, be a minimum size of 24 inch box, and meet a ratio of three replacement trees for each mature tree removed or as approved by the Planning Official. (GP Objective 4.4, 4.5, DG)

Prior to Building Permit

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

52. Prior to issuance of any grading permit, all Conditions of Approval, and Mitigation Measures shall be printed on the building plans.

53. Prior to the issuance of building permits, the developer shall provide documentation that contact was made to the U.S. Postal Service to determine the appropriate type and location of mailboxes.

54. Prior to the issuance of building permits, proposed covered trash enclosures shall be included in the Planning review of the Fence and Wall plan or separate Planning submittal. The trash enclosure(s), including the roof materials, shall be compatible with the architecture, color and materials of the building (s) design. Trash enclosure areas shall include landscaping on three sides. Approved design plans shall be included in a Building submittal (Fence and Wall or building design plans). (GP Objective 43.6, DG)

55. Prior to issuance of any building permits, final landscaping and irrigation plans shall be submitted for review and approved by the Planning Division. After the third plan check review for landscape plans, an additional plan check fee shall apply. The plans shall be prepared in accordance with the City's Landscape Requirements and shall include:
    a. A three (3) foot high decorative wall, solid hedge or berm shall be placed in any setback areas between a public right of way and a parking lot for screening.
    b. Finger and end planters with required step outs and curbing shall be provided every 12 parking stalls as well as at the terminus of each aisle.
    c. Diamond planters shall be provided every 3 parking stalls.
    d. Drought tolerant landscape shall be used. Sod shall be limited to gathering areas.
    e. Street trees shall be provided every 40 feet on center in the right of way.
    f. On-site trees shall be planted at an equivalent of one (1) tree per thirty (30) linear feet of the perimeter of a parking lot and per thirty linear feet of a building dimension for the portions of the building visible from a parking lot or right of way. Trees may be massed for pleasing aesthetic effects.
    g. Enhanced landscaping shall be provided at all driveway entries and street corner locations The review of all utility boxes, transformers etc. shall be coordinated to provide adequate screening from public view.
    h. Landscaping on three sides of any trash enclosure.
    i. All site perimeter and parking lot landscape and irrigation shall be installed prior to the release of certificate of any occupancy permits for the site or pad in question.

56. Prior to issuance of building permits, the Planning Division shall review and approve the location and method of enclosure or screening of transformer cabinets, commercial gas meters and back flow preventers as shown on the final working drawings. Location and screening shall comply with the following criteria : transformer cabinets and commercial gas meters shall not be located within required setbacks and shall be screened from public view either by architectural treatment or landscaping; multiple electrical meters shall be fully enclosed and incorporated into the overall architectural design of the building (s); back-flow preventers shall be screened by landscaping. (GP Objective 43.30)

57. Prior to issuance of a building permit, the developer/property owner or developer's successor-in-interest shall pay all applicable impact fees due at permit issuance, including but not limited to Multi-species Habitat Conservation Plan (MSHCP) mitigation fees. (Ord)

58. Prior to issuance of building permits, for projects that will be phased, a phasing plan shall be submitted to and approved by the Planning Division if occupancy is proposed to be phased.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

59. Prior to or at building plan check submittal, the elevation plans shall include decorative lighting sconces on all sides of the buildings of the complex facing a parking lot, courtyard or plaza, or public right of way or open space to provide up-lighting and shadowing on the structures. Include drawings of the sconce details for each building within the elevation plans, approved by the Planning Division prior to building permit issuance.

60. Detailed, on-site, computer generated, point-by-point comparison lighting plan, including exterior building, parking lot, and landscaping lighting, shall be included in the Building Plans for review by the Planning Division. The lighting plan shall be generated on the plot plan and shall be integrated with the final landscape plan. The plan shall indicate the manufacturer's specifications for light fixtures used, shall include style, illumination, location, height and method of shielding per the City's Municipal Code requirements. After the third plan check review for lighting plans, an additional plan check fee will apply. (MC 9.08.100, 9.16.280)

61. Prior to issuance of building permits, screening details shall be addressed on the building plans for roof top equipment submitted for Planning Division review and approval through the building plan check process. All equipment shall be completely screened so as not to be visible from public view, and the screening shall be an integral part of the building.

62. Prior to issuance of building permits, proposed covered trash enclosure (s) shall be included in the Planning review of the Fence and Wall plans. The trash enclosure (s), including the roof materials, shall be compatible with the architecture, color and materials of the building(s) design. Trash enclosure areas shall include landscaping on three sides unless located within the truck loading area. Approved design plans shall be included in a Building submittal (Fence and walls or building design plans). (GP Objective 43.6, DG)

63. At least thirty days prior to issuance of any grading permit, the developer shall retain a qualified archaeologist, provide a letter identifying the name and qualifications of the archaeologist to the Planning Division for approval, to monitor all ground disturbing activities in an effort to identify any unknown archaeological resources and to evaluate and recommend appropriate actions for any archaeological deposits exposed by construction activity.
At least thirty days prior to issuance of a grading permit, the applicant shall provide evidence that contact has been established with the appropriate Native American Tribe(s), providing notification of grading, excavation and the proposed monitoring program and to coordinate with the City and Tribe(s) to develop a cultural resources treatment and monitoring agreement. The agreement shall address treatment of known cultural resources, the designation, responsibilities and participation of Tribal monitors during grading, excavation and ground disturbing activities; project grading and development scheduling; terms of compensation; and treatment and final disposition of any cultural resources, sacred sites, and human remains discovered on the site.
A report documenting the proposed methodology for grading monitoring shall be submitted to and approved by the Planning Division prior to issuance of any grading permit. The monitoring archaeologist shall be empowered to stop and redirect grading in the vicinity of an exposed archaeological deposit until that deposit can be fully evaluated. The archaeologist shall consult with affected Tribe (s) to evaluate any archaeological resources discovered on the project site. Tribal monitors shall be allowed to monitor all grading, excavation and groundbreaking activities, and shall also have authority to stop and redirect grading activities in consultation with the project archaeologist.
The property owner shall relinquish ownership to the Tribe (s) of all Native American cultural resources, including sacred items, burial goods and all archaeological artifacts that are found on the project site for proper treatment and disposition. All sacred sites, should they be encountered with the project site, shall be avoided and preserved as the preferred mitigation.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

If any inadvertent discoveries of subsurface archaeological or cultural resources occur during grading, the applicant, project archaeologist, and Tribe (s) shall assess the significance of such resources and shall meet and confer regarding mitigation of such resources. Avoidance is the preferred method of preservation of archaeological resources. If the applicant, project archaeologist and Tribe (s) cannot agree on the significance or mitigation for such resources, the issue (s) will be presented to the Planning Official with adequate documentation. The Official shall make a determination based on the provisions of CEQA and consideration of the religious beliefs, customs and practices of the Tribe(s).

64. Prior to issuance of any grading permit, all Conditions of Approval, and Mitigation Measures shall be printed on the grading plans.

65. Prior to the issuance of grading permits, decorative (e.g. colored/scored concrete or as approve by the Planning Official) pedestrian pathways across circulation aisles/paths shall be provided throughout the development to connect dwellings with open spaces and/or recreational uses or commercial/industrial buildings with open space and/or parking and/or the public right-of-way. The pathways shall be shown on the precise grading plan. (GP Objective 46.8, DG)

66. Prior to approval of any grading permits, final median enhancement/landscape/irrigation plans shall be submitted to the Planning Division and Public Works Department - Special Districts for review and approval by each division. (GP - Circulation Master Plan) Timing of installation shall be determined by PW-Special Districts.

67. Prior to approval of any grading plan, local and master-planned multi-use trail easements shall be shown on the rough and precise grading plans in accordance with the City's Master Trail Plan.

68. Prior to issuance of any grading permits, mitigation measures contained in the Mitigation Monitoring Program approved with this project shall be implemented as provided therein. A mitigation monitoring fee, as provided by City ordinance, shall be paid by the applicant within 30 days of project approval. No City permit or approval shall be issued until such fee is paid. (CEQA)

69. Prior to the issuance of any grading permits and prior to any physical disturbance of any natural drainage course, for any area determined to contain riparian vegetation, the applicant shall obtain a stream bed alteration agreement or permit, or a written waiver of the requirement for such an agreement or permit, from both the California Department of Fish and Wildlife and the U.S. Army Corps of Engineers. Written verification of such a permit or waiver shall be provided to the Planning Division and the Public Works Department - Land Development Division. (CEQA, State and Federal codes)

70. Prior to issuance of grading permits, the developer shall pay the applicable Stephens' Kangaroo Rat (SKR) Habitat Conservation Plan mitigation fee. (Ord)

71. Within thirty (30) days prior to any grading or other land disturbance, a pre-construction survey for Burrowing Owls shall be conducted pursuant to the established guidelines of Multiple Species Habitat Conservation Plan. The pre-construction survey shall be submitted to the Planning Division prior to any disturbance of the site and/or grading permit issuance.

72. Prior to approval of any grading permits, the applicant shall have a qualified hazardous materials specialist examine the site to determine if there are any toxic or hazardous materials on-site which might pose a threat to human health. The examination shall include soil tests if deemed

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

necessary by the consultant. A copy of the report, including recommended remediation or other clean -up measures, shall be provided to the Planning Division and the Public Works Department - Land Development Division by the consultant prior to any grading permits being issued. (Ord,)

73. Prior to approval of any grading permits, plans for any security gate system shall be submitted to and approved by to the Planning Division.

74. Prior to the issuance of grading permits, the site plan and grading plans shall show decorative hardscape (e.g. colored concrete, stamped concrete, pavers or as approved by the Planning Official) consistent and compatible with the design, color and materials of the proposed development for all driveway ingress /egress locations of the project. [apply to commercial and multi-family project, and major entry driveways for industrial]

75. Prior to the issuance of grading permits, a temporary project identification sign shall be erected on the site in a secure and visible manner. The sign shall be conspicuously posted at the site and remain in place until occupancy of the project.
The sign shall include the following:
a. The name (if applicable) and address of the development.
b. The developer's name, address, and a 24-hour emergency telephone number.

76. Prior to issuance of grading permits, the location of the trash enclosure shall be included on the plans.

77. Prior to approval of any grading permit, the tree plan shall be submitted to and approved by the Planning Division. The plan shall identify all mature trees (4 inch trunk diameter or larger) on the subject property and City right -of-way. Using the grading plan as a base, the plan shall indicate trees to be relocated, retained, and removed. Replacement trees shall be shown on the plan, be a minimum size of 24 inch box, and meet a ratio of three replacement trees for each mature tree removed or as approved by the Planning Official. (GP Objective 4.4, 4.5, DG)

Prior to Building Final or Occupancy

78. Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).

79. Prior to building final, Planning approved/stamped landscape plans shall be provided to the Community Development Department – Planning Division on a CD disk.

80. Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC 9.080.070).

81. Prior to building final or Certificate of Occupancy, the owner or owner 's representative shall provide documentation to the Planning Division that they have contacted the Moreno Valley Police Department to establish and maintain a relationship with the City of Moreno Valley Police Department and cooperate with the Problem Oriented Policing (POP) program, or its successors. [multi-family, night clubs, liquor stores]

Building Division

82. The proposed non-residential project shall comply with the latest Federal Law, Americans with

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

Disabilities Act, and State Law, California Code of Regulations, Title 24, Chapter 11B for accessibility standards for the disabled including access to the site, exits, bathrooms, work spaces, etc.

83. Contact the Building Safety Division for permit application submittal requirements.

84. All new buildings 10,000 square feet and over, shall include building commissioning in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (OPR). All requirements in The California Green Building Standards Code, sections 5.410.2 - 5.410.2.6 must be met.

85. Any construction within the city shall only be as follows: Monday through Friday seven a.m. to seven p.m. (except for holidays which occur on weekdays), eight a.m. to four p.m.; weekends and holidays (as observed by the city and described in the Moreno Valley Municipal Code Chapter 2.55), unless written approval is first obtained from the Building Official or City Engineer.

86. Building plans submitted shall be signed and sealed by a California licensed design professional as required by the State Business and Professions Code.

87. The proposed development shall be subject to the payment of required development fees as required by the City's current Fee Ordinance at the time a building application is submitted or prior to the issuance of permits as determined by the City.

88. The proposed project will be subject to approval by the Eastern Municipal Water District and all applicable fees and charges shall be paid prior to permit issuance. Contact the water district at 951.928.3777 for specific details.

89. All new structures shall be designed in conformance to the latest design standards adopted by the State of California in the California Building Code, (CBC) Part 2, Title 24, California Code of Regulations including requirements for allowable area, occupancy separations, fire suppression systems, accessibility, etc.

90. The proposed non-residential project shall comply with California Green Building Standards Code, Section 5.106.5.3, mandatory requirements for Electric Vehicle Charging Station (EVCS).

91. The proposed project's occupancy shall be classified by the Building Official and must comply with exiting, occupancy separation(s) and minimum plumbing fixture requirements. Minimum plumbing fixtures shall be provided per the California Plumbing Code, Table 422.1. The occupant load and occupancy classification shall be determined in accordance with the California Building Code.

92. Prior to permit issuance, every applicant shall submit a properly completed Waste Management Plan (WMP), as a portion of the building or demolition permit process. (MC 8.80.030)

ECONOMIC DEVELOPMENT DEPARTMENT (EDD)

93. New Moreno Valley businesses may work with the Economic Development Department to coordinate job recruitment fairs.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

94. New Moreno Valley businesses may adopt a "First Source" approach to employee recruitment that gives notice of job openings to Moreno Valley residents for one week in advance of public recruitment.

95. New Moreno Valley businesses are encouraged to hire local residents.

96. New Moreno Valley businesses are encouraged to provide a job fair flyer and /or web announcement to the City in advance of job recruitments, so that the City can assist in publicizing these events.

97. New Moreno Valley businesses may utilize the workforce recruitment services provided by the Moreno Valley Business & Employment Resource Center ("BERC").
The BERC offers free assistance to Moreno Valley businesses recruiting and training potential employees. Complimentary services include:
- Job Announcements
- Applicant testing / pre-screening
- Interviewing
- Job Fair support
- Training space

FIRE DEPARTMENT

Fire Prevention Bureau

98. The Fire Department emergency vehicular access road shall be (all weather surface) capable of sustaining an imposed load of 80,000 lbs. GVW, based on street standards approved by the Public Works Director and the Fire Prevention Bureau. The approved fire access road shall be in place during the time of construction. Temporary fire access roads shall be approved by the Fire Prevention Bureau. (CFC 501.4, and MV City Standard Engineering Plan 108d)

99. The angle of approach and departure for any means of Fire Department access shall not exceed 1 ft. drop in 20 ft. (0.3 m drop in 6 m), and the design limitations of the fire apparatus of the Fire Department shall be subject to approval by the AHJ. (CFC 503 and MVMC 8.36.060)

100. Prior to construction, all locations where structures are to be built shall have an approved Fire Department access based on street standards approved by the Public Works Director and the Fire Prevention Bureau. (CFC 501.4)

101. Prior to issuance of Building Permits, the applicant/developer shall provide the Fire Prevention Bureau with an approved site plan for Fire Lanes and signage. (CFC 501.3)

102. Prior to issuance of Certificate of Occupancy or Building Final, "Blue Reflective Markers" shall be installed to identify fire hydrant locations in accordance with City specifications. (CFC 509.1 and MVLT 440A-0 through MVLT 440C-0)

103. Prior to issuance of Certificate of Occupancy or Building Final, all commercial buildings shall display street numbers in a prominent location on the street side and rear access locations. The numerals shall be a minimum of twelve inches in height. (CFC 505.1, MVMC 8.36.060[I])

104. Final fire and life safety conditions will be addressed when the Fire Prevention Bureau reviews building plans. These conditions will be based on occupancy, use, California Building Code (CBC), California Fire Code (CFC), and related codes, which are in effect at the time of building plan submittal.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

105. The Fire Code Official is authorized to enforce the fire safety during construction requirements of Chapter 33. (CFC Chapter 33 & CBC Chapter 33)

106. Fire lanes and fire apparatus access roads shall have an unobstructed width of not less than twenty–four (24) feet and an unobstructed vertical clearance of not less the thirteen (13) feet six (6) inches. (CFC 503.2.1 and MVMC 8.36.060[E])

107. Prior to issuance of Certificate of Occupancy or Building Final, the applicant/developer shall install a fire sprinkler system based on square footage and type of construction, occupancy or use. Fire sprinkler plans shall be submitted to the Fire Prevention Bureau for approval prior to installation. (CFC Chapter 9, MVMC 8.36.100[D])

108. Prior to issuance of a Certificate of Occupancy or Building Final, a "Knox Box Rapid Entry System" shall be provided. The Knox-Box shall be installed in an accessible location approved by the Fire Code Official. All exterior security emergency access gates shall be electronically operated and be provided with Knox key switches for access by emergency personnel. (CFC 506.1)

109. The minimum number of fire hydrants required, as well as the location and spacing of fire hydrants, shall comply with the C.F.C., MVMC, and NFPA 24. Fire hydrants shall be located no closer than 40 feet to a building. A fire hydrant shall be located within 50 feet of the fire department connection for buildings protected with a fire sprinkler system. The size and number of outlets required for the approved fire hydrants are (6" x 4" x 2 ½" x 2 ½") (CFC 507.5.1, 507.5.7, Appendix C, NFPA 24-7.2.3, MVMC 912.2.1)

110. Plans for private water mains supplying fire sprinkler systems and /or private fire hydrants shall be submitted to the Fire Prevention Bureau for approval. (CFC 105 and CFC 3312.1)

111. The Fire Prevention Bureau is required to set a minimum fire flow for the remodel or construction of all commercial buildings per CFC Appendix B and Table B 105.1. The applicant/developer shall provide documentation to show there exists a water system capable of delivering said waterflow for 2 hour(s) duration at 20-PSI residual operating pressure. The required fire flow may be adjusted during the approval process to reflect changes in design, construction type, or automatic fire protection measures as approved by the Fire Prevention Bureau. Specific requirements for the project will be determined at time of submittal. (CFC 507.3, Appendix B)

112. Prior to issuance of Building Permits, the applicant/developer shall furnish one copy of the water system plans to the Fire Prevention Bureau for review. Plans shall: a. Be signed by a registered civil engineer or a certified fire protection engineer; b. Contain a Fire Prevention Bureau approval signature block; and c. Conform to hydrant type, location, spacing of new and existing hydrants and minimum fire flow required as determined by the Fire Prevention Bureau. The required water system, including fire hydrants, shall be installed, made serviceable, and be accepted by the Moreno Valley Fire Department prior to beginning construction. They shall be maintained accessible.

FINANCIAL & MANAGEMENT SERVICES DEPARTMENT

Moreno Valley Utility

113. This project requires the installation of electric distribution facilities. A non-exclusive easement shall be provided to Moreno Valley Utility and shall include the rights of ingress and egress for

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

the purpose of operation, maintenance, facility repair, and meter reading.

114. This project requires the installation of electric distribution facilities. The developer shall submit a detailed engineering plan showing design, location and schematics for the utility system to be approved by the City Engineer. In accordance with Government Code Section 66462, the Developer shall execute an agreement with the City providing for the installation, construction, improvement and dedication of the utility system following recordation of final map and/or concurrent with trenching operations and other improvements so long as said agreement incorporates the approved engineering plan and provides financial security to guarantee completion and dedication of the utility system.
The Developer shall coordinate and receive approval from the City Engineer to install, construct, improve, and dedicate to the City all utility infrastructure including but not limited to, conduit, equipment, vaults, ducts, wires (including fiber optic cable), switches, conductors, transformers, and "bring-up" facilities including electrical capacity to serve the identified development and other adjoining, abutting, or benefiting projects as determined by Moreno Valley Utility – collectively referred to as "utility system", to and through the development, along with any appurtenant real property easements, as determined by the City Engineer necessary for the distribution and/or delivery of any and all "utility services" to and within the project. For purposes of this condition, "utility services" shall mean electric, cable television, telecommunication (including video, voice, and data) and other similar services designated by the City Engineer. "Utility services" shall not include sewer, water, and natural gas services, which are addressed by other conditions of approval.
The City, or the City's designee, shall utilize dedicated utility facilities to ensure safe, reliable, sustainable and cost effective delivery of utility services and maintain the integrity of streets and other public infrastructure. Developer shall, at developer's sole expense, install or cause the installation of such interconnection facilities as may be necessary to connect the electrical distribution infrastructure within the project to the Moreno Valley Utility owned and controlled electric distribution system.

115. Existing Moreno Valley Utility electrical infrastructure shall be preserved in place. The developer will be responsible, at developer's expense, for any and all costs associated with the relocation of any of Moreno Valley Utility's underground electrical distribution facilities, as determined by Moreno Valley Utility, which may be in conflict with any developer planned construction on the project site.

116. This project is subject to a Reimbursement Agreement. The Developer is responsible for a proportionate share of costs associated with electrical distribution infrastructure previously installed that directly benefits the project.

PUBLIC WORKS DEPARTMENT

Land Development

117. Aggregate slurry, as defined in Section 203-5 of Standard Specifications for Public Works Construction, shall be required prior to 90% security reduction or the end of the one-year warranty period of the public streets as approved by the City Engineer. If slurry is required, a slurry mix design shall be submitted for review and approved by the City Engineer. The latex additive shall be Ultra Pave 70 (for anionic) or Ultra Pave 65 K (for cationic) or an approved equal per the geotechnical report. The latex shall be added at the emulsion plant after weighing the asphalt and before the addition of mixing water. The latex shall be added at a rate of two to two-and-one-half (2 to 2½) parts to one-hundred (100) parts of emulsion by volume. Any existing striping shall be removed prior to slurry application and replaced per City standards.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

118. The developer shall comply with all applicable City ordinances and resolutions including the City's Municipal Code (MC) and if subdividing land, the Government Code (GC) of the State of California, specifically Sections 66410 through 66499.58, said sections also referred to as the Subdivision Map Act (SMA). [MC 9.14.010]

119. The final approved conditions of approval (COAs) issued and any applicable Mitigation Measures by the Planning Division shall be photographically or electronically placed on mylar sheets and included in the Grading and Street Improvement plans.

120. The developer shall monitor, supervise and control all construction related activities, so as to prevent these activities from causing a public nuisance, including but not limited to, insuring strict adherence to the following:
    a. Removal of dirt, debris, or other construction material deposited on any public street no later than the end of each working day.
    b. Observance of working hours as stipulated on permits issued by the Land Development Division.
    c. The construction site shall accommodate the parking of all motor vehicles used by persons working at or providing deliveries to the site.
    d. All dust control measures per South Coast Air Quality Management District (SCAQMD) requirements during the grading operations.
    Violation of any condition, restriction or prohibition set forth in these conditions shall subject the owner, applicant, developer or contractor (s) to remedy as noted in City Municipal Code
    8.14.090. In addition, the City Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

121. Drainage facilities (e.g., catch basins, water quality basins, etc.) with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided.

122. In the event right-of-way or offsite easements are required to construct offsite improvements necessary for the orderly development of the surrounding area to meet the public health and safety needs, the developer shall make a good faith effort to acquire the needed right-of-way in accordance with the Land Development Division's administrative policy. If unsuccessful, the Developer shall enter into an agreement with the City to acquire the necessary right-of-way or offsite easements and complete the improvements at such time the City acquires the right -of-way or offsite easements which will permit the improvements to be made. The developer shall be responsible for all costs associated with the right -of-way or easement acquisition. [GC 66462.5]

123. If improvements associated with this project are not initiated within two (2) years of the date of approval of the Public Improvement Agreement (PIA), the City Engineer may require that the engineer's estimate for improvements associated with the project be modified to reflect current City construction costs in effect at the time of request for an extension of time for the PIA or issuance of a permit. [MC 9.14.210(B)(C)]

124. The developer shall protect downstream properties from damage caused by alteration of drainage patterns (i.e. concentration or diversion of flow, etc.). Protection shall be provided by constructing adequate drainage facilities, including, but not limited to, modifying existing facilities or by securing a drainage easement. [MC 9.14.110]

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

125. Public drainage easements, when required, shall be a minimum of 25 feet wide and shall be shown on the map and plan, and noted as follows: “Drainage Easement – no structures, obstructions, or encroachments by land fills are allowed.” In addition, the grade within the easement area shall not exceed a 3:1 (H:V) slope, unless approved by the City Engineer.

126. The maintenance responsibility of the proposed storm drain line shall be clearly identified. Storm drain lines within private property will be privately maintained and those within public streets will be publicly maintained.

127. The proposed private storm drain system shall connect to the proposed 78" reinforced concrete pipe (RCP) in Redlands Boulevard. A storm drain manhole shall be placed at the right of way line to mark the beginning of the publicly maintained portion of this storm drain.

128. This project shall submit civil engineering design plans, reports and /or documents (prepared by a registered/licensed civil engineer) for review and approval by the City Engineer per the current submittal requirements, prior to the indicated threshold or as required by the City Engineer. The submittal consists of, but is not limited to, the following:
    a. Parcel Map (recordation prior to building permit issuance);
    b. Rough grading with erosion control plan (prior to grading permit issuance);
    c. Precise grading with erosion control plan (prior to grading permit issuance);
    d. Street/storm drain with striping, RCFC & WCD storm drain, and sewer/water plans (prior to encroachment permit issuance);
    e. Final drainage study (prior to grading plan approval);
    f. Final WQMP (prior to grading plan approval);
    g. Easements, dedications, vacations, etc. (prior to building permit issuance);
    h. As-Built revision for all plans (prior to occupancy release). Prior to Grading Permit

129. A receipt showing payment of the Area Drainage Plan (ADP) fee to Riverside County Flood Control and Water Conservation District shall be submitted. [MC 9.14.100(O)]

130. If the developer chooses to construct the project in phases, a Construction Phasing Plan for the construction of on-site public or private improvements shall be submitted for review and approved by the City Engineer.

131. Prior to the payment of the Development Impact Fee (DIF), the developer may enter into a DIF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement prior to the timing specified above, credits may not be given. The developer shall pay current DIF fees adopted by the City Council. [Ord. 695 § 1.1 (part), 2005] [MC 3.38.030, 040, 050]

132. A digital (pdf) copy of all approved grading plans shall be submitted to the Land Development Division.

133. Security, in the form of a cash deposit (preferable), bond or letter of credit shall be submitted as a guarantee of the implementation and maintenance of erosion control measures. At least twenty-five (25) percent of the required security shall be in the form of a cash deposit with the City. [MC 8.21.160(H)]

134. Security, in the form of a cash deposit (preferable), bond or letter of credit shall be submitted as a guarantee of the completion of the grading operations for the project. [MC 8.21.070]

135. The developer shall pay all applicable inspection fees.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

136. Prior to the payment of the Transportation Uniform Mitigation Fee (TUMF), the developer may enter into a TUMF Improvement Credit Agreement to secure credit for the construction of applicable improvements. If the developer fails to complete this agreement by the timing specified above, credits may not be given. The developer shall pay current TUMF fees adopted by the City Council. [Ord. 835 § 2.1, 2012] [MC 3.44.060]

Prior to Map Approval

137. All proposed street names shall be submitted for review and approved by the City Engineer, if applicable. [MC 9.14.090(E.2.k)]

138. A copy of the Covenants, Conditions and Restrictions (CC&R's) shall be submitted for review and approved by the City Engineer. The CC&R's shall include, but not be limited to, access easements, reciprocal access, private and /or public utility easements as may be relevant to the project.

139. The developer shall enter into a Cooperative Agreement with the City and Riverside County Flood Control and Water Conservation District establishing the terms and conditions covering the inspection, operation and maintenance of Master Drainage Plan facilities required to be constructed as part of the project.

140. After recordation, a digital (pdf) copy of the recorded map shall be submitted to the Land Development Division.

141. Resolution of all drainage issues shall be as approved by the City Engineer.

142. Maps (prepared by a registered civil engineer and/or licensed surveyor) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

143. The developer shall guarantee the completion of all related improvements required for this project by executing a Public Improvement Agreement (PIA) with the City and posting the required security. [MC 9.14.220]

144. All public improvement plans required for this project shall be approved by the City Engineer in order to execute the Public Improvement Agreement (PIA).

145. The developer shall comply with the requirements of the City Engineer based on recommendations of the Riverside County Flood Control District regarding the construction of County Master Plan Facilities.

146. All street dedications shall be free of all encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.

Prior to Improvement Plan Approval

147. The developer is required to bring any existing access ramps adjacent to and fronting the project to current ADA (Americans with Disabilities Act) requirements. However, when work is required in an intersection that involves or impacts existing access ramps, all access ramps in that intersection shall be retrofitted to comply with current ADA requirements, unless otherwise approved by the City Engineer.

148. The developer shall submit clearances from all applicable agencies, and pay all applicable

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

plan check fees.

149. The street improvement plans shall comply with current City policies, plans and applicable City standards (i.e. MVSI-160 series, etc.) throughout this project.

150. The design plan and profile shall be based upon a centerline, extending beyond the project boundaries a minimum distance of 300 feet at a grade and alignment approved by the City Engineer.

151. Drainage facilities (i.e. catch basins, etc.) with sump conditions shall be designed to convey the tributary 100-year storm flows. Secondary emergency escape shall also be provided.

152. The hydrology study shall be designed to accept and properly convey all off -site drainage flowing onto or through the site. In the event that the City Engineer permits the use of streets for drainage purposes, the provisions of current City standards shall apply. Should the quantities exceed the street capacity or the use of streets be prohibited for drainage purposes, as in the case where one travel lane in each direction shall not be used for drainage conveyance for emergency vehicle access on streets classified as minor arterials and greater, the developer shall provide adequate facilities as approved by the City Engineer. [MC 9.14.110 A.2]

153. All public improvement plans (prepared by a licensed/registered civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

154. Any missing or deficient existing improvements along the project frontage shall be constructed or secured for construction. The City Engineer may require the ultimate structural section for pavement to half-street width plus 18 feet or provide core test results confirming that existing pavement section is per current City Standards; additional signing & striping to accommodate increased traffic imposed by the development, etc.

155. The plans shall indicate any restrictions on trench repair pavement cuts to reflect the City's moratorium on disturbing newly-constructed pavement less than three (3) years old and recently slurry sealed streets less than one (1) year old. Pavement cuts may be allowed for emergency repairs or as specifically approved in writing by the City Engineer. Special requirements shall be imposed for repaving, limits to be determined by the City Engineer.

156. All dry and wet utilities shall be shown on the plans and any crossings shall be potholed to determine actual location and elevation. Any conflicts shall be identified and addressed on the plans. The pothole survey data shall be submitted to Land Development with the public improvement plans for reference purposes only. The developer is responsible to coordinate with all affected utility companies and bear all costs of any utility relocation.

Prior to Encroachment Permit

157. A digital (pdf) copy of all approved improvement plans shall be submitted to the Land Development Division.

158. All applicable inspection fees shall be paid.

159. Any work performed within public right-of-way requires an encroachment permit.

Prior to Building Permit

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

160. An engineered-fill certification, rough grade certification and compaction report shall be submitted for review and approved by the City Engineer. A digital (pdf) copy of the approved compaction report shall be submitted to the Land Development Division. All pads shall meet pad elevations per approved grading plans as noted by the setting of "blue-top" markers installed by a registered land surveyor or licensed civil engineer.

161. For Commercial/Industrial projects, the owner may have to secure coverage under the State's General Industrial Activities Storm Water Permit as issued by the State Water Resources Control Board.

162. For non-subdivision projects, all street dedications shall be free of encumbrances, irrevocably offered to the public and shall continue in force until the City accepts or abandons such offers, unless otherwise approved by the City Engineer.

163. A walk through with a Land Development Inspector shall be scheduled to inspect existing improvements within public right of way along project frontage. Any missing, damaged or substandard improvements including ADA access ramps that do not meet current City standards shall be required to be installed, replaced and /or repaired. The applicant shall post security to cover the cost of the repairs and complete the repairs within the time allowed in the public improvement agreement used to secure the improvements.

164. Certification to the line, grade, flow test and system invert elevations for the water quality control BMPs shall be submitted for review and approved by the City Engineer (excluding models homes).

Prior to Occupancy

165. All outstanding fees shall be paid.

166. All required as-built plans (prepared by a registered/licensed civil engineer) shall be submitted for review and approved by the City Engineer per the current submittal requirements.

167. The final/precise grade certification shall be submitted for review and approved by the City Engineer.

168. For commercial, industrial and multi-family projects, in compliance with Proposition 218, the developer shall agree to approve the City of Moreno Valley NPDES Regulatory Rate Schedule that is in place at the time of certificate of occupancy issuance. Under the current permit for storm water activities required as part of the National Pollutant Discharge Elimination System (NPDES) as mandated by the Federal Clean Water Act, this project is subject to the following requirements:
    a. Select one of the following options to meet the financial responsibility to provide storm water utilities services for the required continuous operation, maintenance, monitoring system evaluations and enhancements, remediation and/or replacement, all in accordance with Resolution No. 2002-46.
        i. Participate in the mail ballot proceeding in compliance with Proposition 218, for the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule and pay all associated costs with the ballot process; or
        ii. Establish an endowment to cover future City costs as specified in the Common Interest, Commercial, Industrial and Quasi-Public Use NPDES Regulatory Rate Schedule.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

b. Notify the Special Districts Division of the intent to request building permits 90 days prior to their issuance and the financial option selected. The financial option selected shall be in place prior to the issuance of certificate of occupancy. [California Government Code & Municipal Code]

169. The developer shall complete all public improvements in conformance with current City standards, except as noted in the Special Conditions, including but not limited to the following:
   a. Street improvements including, but not limited to: pavement, base, curb and/or gutter, cross gutters, spandrel, sidewalks, drive approaches, pedestrian ramps, street lights (MVU: SL-2), signing, striping, under sidewalk drains, landscaping and irrigation, medians, pavement tapers/transitions and traffic control devices as appropriate.
   b. Storm drain facilities including, but not limited to: storm drain pipe, storm drain laterals, open channels, catch basins and local depressions.
   c. City-owned utilities.
   d. Sewer and water systems including, but not limited to: sanitary sewer, potable water and recycled water.
   e. Under grounding of all existing and proposed utilities adjacent to and on -site. [MC 9.14.130]
   f. Relocation of overhead electrical utility lines including, but not limited to: electrical, cable and telephone.

170. For commercial, industrial and multi-family projects, a Stormwater Treatment Device and Control Measure Access and Maintenance Covenant, Maintenance Agreement for Water Quality Improvements located in the public right of way, and a Declaration of Restrictive Covenants (encroachment on City easement) shall be recorded to provide public notice of the maintenance requirements to be implemented per the approved final project-specific WQMP. A boilerplate copy of the covenants and agreements can be obtained by contacting the Land Development Division.

171. The applicant shall ensure the following, pursuant to Section XII. I. of the 2010 NPDES Permit:
   a. Field verification that structural Site Design, Source Control and Treatment Control BMPs are designed, constructed and functional in accordance with the approved Final Water Quality Management Plan (WQMP).
   b. Certification of best management practices (BMPs) from a state licensed civil engineer. An original WQMP BMP Certification shall be submitted for review and approved by the City Engineer.

172. The Developer shall comply with the following water quality related items:
   a. Notify the Land Development Division prior to construction and installation of all structural BMPs so that an inspection can be performed.
   b. Demonstrate that all structural BMPs described in the approved final project-specific WQMP have been constructed and installed in conformance with the approved plans and specifications;
   c. Demonstrate that Developer is prepared to implement all non -structural BMPs described in the approved final project-specific WQMP; and
   d. Demonstrate that an adequate number of copies of the approved final project-specific WQMP are available for future owners/occupants.
   e. Clean and repair the water quality BMP's, including re-grading to approved civil drawing if necessary.
   f. Obtain approval and complete installation of the irrigation and landscaping.

Special Conditions

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

173. Prior to issuance of a building permit, the developer shall make a lump sum, fair share, estimated reimbursement payment of $212,100 towards the Eucalyptus Avenue and Redlands Boulevard roundabout improvement, consistent with the terms of the Reimbursement Agreement (PEN18-0254), dated 01/12/22.

174. “Prior to occupancy, the Applicant shall install a 72" reinforced concrete pipe (RCP) storm drain to join the existing 72" RCP, located in Redlands Boulevard south of Eucalyptus Avenue. The Applicant shall also make the necessary installations that will cause the proposed 72" RCP to transition to a proposed 78" RCP at Redlands Boulevard north of Encelia Avenue to be installed by the Applicant, which will terminate near Dracaea Avenue, where it will join an existing 42" RCP. Final design and sizing shall be coordinated with the City and Riverside County Flood Control and Water Conservation District (RCFC & WCD) and shall be as approved by the City Engineer.”

175. Prior to occupancy, a sheet pile wall with guard rail shall be constructed along the project's westerly property line (the easterly limits of the Quincy Channel).

176. Prior to grading plan approval, the developer shall dedicate the following right of way to accommodate the required improvements:
    a. The necessary street right of way dedication on the west side of Redlands Boulevard (110' R/W / 86' CC: 4-Lane Divided Arterial, City Standard No. MVSI-103A-0) along project frontage.
    b. The necessary street right of way dedication on the south side of Eucalyptus Avenue (100' R/W / 76’ CC: Arterial, City Standard No. MVSI-104A-0) along project frontage.
    c. The necessary street right of way dedication on the north side of Encelia Avenue (88' R/W / 64' CC: Minor Arterial, City Standard No. MVSI-105A-1) along project frontage.
    d. A 4 foot minimum pedestrian right of way dedication behind any driveway approach per City Standard No. MVSI-112C-0 on Redlands Boulevard and Eucalyptus Avenue
    e. Corner cutback right of way dedication necessary to construct the roundabout intersection improvements on the southwest corner of Redlands Boulevard and Eucalyptus Avenue, as directed by the City Engineer.
    f. Corner cutback right of way dedication per City Standard No. MVSI-165-0 on northwest corner of Redlands Boulevard and Encelia Avenue.

177. Prior to building permit issuance, the westerly 5’ of Redlands Boulevard right of way shall be vacated in order to achieve the 4-Lane Divided Arterial right of way half-width of 55’, as directed by the City Engineer.

178. Prior to occupancy, the following improvements shall be completed:
Redlands Boulevard (110' R/W / 86' CC: 4-Lane Divided Arterial, City Standard No. MVSI-103A-0) shall be constructed to achieve a half-width of 43', full-width median, plus an additional 18' of pavement, along the entire project's east frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-103A-0. Any missing or deficient improvements along the project's east frontage shall be constructed prior to issuance of a certificate of occupancy.

179. Prior to occupancy, the following improvements shall be completed:
Eucalyptus Avenue (100' R/W / 76’ CC: Arterial, City Standard No. MVSI-104A-0) shall be

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

constructed to achieve a half-width of 38' plus an additional 18' of pavement, along the entire project's north frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, driveway approaches, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-104A-0. Any missing or deficient improvements along the project's north frontage shall be constructed prior to issuance of a certificate of occupancy.

180. Prior to occupancy, the following improvements shall be completed:
Encelia Avenue (88' R/W / 64' CC: Minor Arterial, City Standard No. MVSI-105A-1) shall be constructed to achieve a half-width of 32' plus an additional 18' of pavement, along the entire project's south frontage. Improvements shall consist of, but not be limited to, pavement, base, curb, gutter, sidewalk, drainage structures, any necessary offsite improvement transition/joins to existing, street lights, pedestrian ramps, and dry and wet utilities. Prior to improvement plan approval, the developer shall provide to the City Engineer the results of coring tests confirming that said existing pavement section has been constructed per City Standard No. MVSI-105A-1. Any missing or deficient improvements along the project's south frontage shall be constructed prior to issuance of a certificate of occupancy.

181. Prior to improvement plan approval, pavement core samples of existing pavement shall be taken and findings submitted to the City for review and consideration of pavement improvements. The City will determine the adequacy of the existing pavement structural section. If the existing pavement structural section is found to be adequate, the developer may still be required to perform a 2 inch grind and overlay or slurry seal, depending on the severity of existing pavement cracking, as required by the City Engineer. If the existing pavement section is found to be inadequate, the Developer shall replace the pavement to meet or exceed the City's pavement structural section standard.

182. Prior to improvement plan approval, the project applicant shall design the intersection of Redlands Boulevard and State Route 60 Westbound Ramps, including acquiring necessary right of way to accommodate the required improvements. Design requirements shall be per the Transportation Engineering Division’s Conditions of Approval.

183. Prior to occupancy, per the Transportation Engineering Division’s Conditions of Approval, all required improvements for the intersection of Redlands Boulevard and State Route 60 Westbound Ramps shall be constructed and fully operational per the approved plans and to the satisfaction of the City Engineer and Caltrans (as applicable).

Special Districts Division

184. NEW STREET LIGHT INSTALLATION FEES. Prior to the issuance of the first building permit for this project, the Developer shall pay New Street Light Installation Fees for all applicable Residential and Arterial Street Lights required for this development. Payment shall be made to the City of Moreno Valley and collected by the Land Development Division. Fees are based upon the Advanced Energy fee rate in place at the time of payment, as set forth in the current Listing of City Fees, Charges, and Rates adopted by City Council. The Developer shall provide a copy of the receipt to the Special Districts Division (specialdistricts@moval.org). Any change in the project which may increase the number of street lights to be installed will require payment of additional Advanced Energy fees at the then current fee. Questions may be directed to the Special Districts Division at 951.413.3480 or specialdistricts@moval.org.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

185. This project is conditioned for a proposed district to provide a funding source for the operation and maintenance of public improvements and /or services associated with new development in that territory. The Developer shall satisfy this condition with one of the options outlined below.
    a. Participate in a special election for maintenance/services and pay all associated costs of the election process and formation, if any. Financing may be structured through a Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or
    b. Establish an endowment fund to cover the future maintenance and /or service costs.
    The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the district has been or is in the process of being formed the Developer must inform the Special Districts Division of its selected financing option (a. or b. above). The option for participating in a special election requires 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.
    The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

186. Commercial (BP) If Land Development, a Division of the Public Works Department, requires this project to supply a funding source necessary to provide for, but not limited to, stormwater utilities services for the continuous operation, remediation and/or replacement, monitoring, systems evaluations and enhancement of on -site facilities and performing annual inspections of the affected areas to ensure compliance with state mandated stormwater regulations, a funding source needs to be established. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option for the National Pollution Discharge Elimination System (NPDES) program when submitting the application for the first building permit issuance (see Land Development's related condition). Participating in a special election the process requires a 90 day period prior to the City's issuance of a building permit. This allows adequate time to be in compliance with the provisions of Article 13D of the California Constitution. (California Health and Safety Code Sections 5473 through 5473.8 (Ord. 708 Section 3.1, 2006) & City of Moreno Valley Municipal Code Title 3, Section 3.50.050.)

187. For those areas to be maintained by the City and prior to the issuance of the first Building Permit, Planning Division (Community Development Department), Special Districts Division (the Public Works Department) and Transportation Division (the Public Works Department) shall review and approve the final median, traffic circle, parkway, slope, and/or open space landscape/irrigation plans as designated on the tentative map or in these Conditions of Approval prior to the issuance of the first Building Permit.

188. This project has been identified to be included in the formation of a Community Facilities District (Mello-Roos) for Public Safety services, including but not limited to Police, Fire Protection, Paramedic Services, Park Rangers, and Animal Control services. The property owner(s) shall not protest the formation; however, they retain the right to object to the rate and method of maximum special tax. In compliance with Proposition 218, the property owner shall agree to approve the mail ballot proceeding (special election) for either formation of the CFD or annexation into an existing district. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting the application for building permit issuance to determine the requirement for participation. If the first building permit is pulled prior to formation of the district, this condition will not apply. If the condition applies, the

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

special election will require a minimum of 90 days prior to issuance of the first building permit. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution. (California Government Code Section 53313 et. seq.)

189. MAJOR INFRASTRUCTURE FINANCING DISTRICT. This project has been identified to potentially be included in the formation of a special financing district for the construction and maintenance of major infrastructure improvements which may include but are not limited to thoroughfares, bridges, and certain flood control improvements. The property owner(s) shall participate in such district and pay any special tax, assessment, or fee levied upon the project property for such district. At the time of the public hearing to consider formation of or annexation into the district, the qualified elector(s) will not protest the formation or annexation, but will retain the right to object to any eventual tax/assessment/fee that is not equitable should the financial burden of the tax/assessment/fee not be reasonably proportionate to the benefit the affected property obtains from the improvements to be installed and /or maintained. The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org when submitting an application for the first building permit to determine whether the development will be subjected to this condition. If subject to the condition, the special election requires a minimum 90 day process in compliance with the provisions of Article 13C of the California Constitution.

190. This project is conditioned to provide a funding source for the following special financing program(s):
    a. Street Lighting Services for capital improvements, energy charges, and maintenance.
    b. Landscape Maintenance Services for parkway, open space, median, and /or traffic circle landscaping.

    The Developer's responsibility is to provide a funding source for the capital improvements and the continued maintenance. The Developer shall satisfy this condition with one of the options below.
        i. Participate in a special election (mail ballot proceeding) and pay all associated costs of the special election and formation, if any. Financing may be structured through a Community Services District zone, Community Facilities District, Landscape and Lighting Maintenance District, or other financing structure as determined by the City; or
        ii. Establish a Property Owner's Association (POA) or Home Owner's Association (HOA) which will be responsible for any and all operation and maintenance costs

    The Developer must notify the Special Districts Division at 951.413.3480 or at specialdistricts@moval.org of its selected financial option when submitting the application for building permit issuance. The option for participating in a special election requires approximately 90 days to complete the special election process. This allows adequate time to be in compliance with the provisions of Article 13C of the California Constitution.
    The financial option selected shall be in place prior to the issuance of the first certificate of occupancy for the project.

191. The Developer, or the Developer's successors or assignees shall be responsible for all parkway, median, and/or traffic circle landscape maintenance for a period of one (1) year commencing from the time all items of work have been completed to the satisfaction of Special Districts staff as per the City of Moreno Valley Public Works Department Landscape Design Guidelines, or until such time as the District accepts maintenance responsibilities.

192. Inspection fees for the monitoring of landscape installation associated with the City of Moreno Valley maintained parkways/medians/traffic circles are due prior to the required pre-

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

construction meeting. (MC 3.32.040)

193. Plans for parkway, median, traffic circle, slope, and/or open space landscape areas designated in the project's Conditions of Approval for incorporation into a City Coordinated landscape maintenance program, shall be prepared and submitted in accordance with the City of Moreno Valley Public Works Department Landscape Design Guidelines. The guidelines are available on the City's website at www.moval.org/sd or from the Special Districts Division (951.413.3480 or specialdistricts@moval.org).

194. The ongoing maintenance of any landscaping required to be installed behind the curb shall be the responsibility of the property owner.

195. Plan check fees for review of parkway/median/traffic circle landscape plans for improvements that shall be maintained by the City of Moreno Valley are due upon the first plan submittal. (MC 3.32.040)

196. PARKS MAINTENANCE FUNDING. Prior to applying for the 1st Building Permit, the qualified elector (e.g. property owner) must initiate the process (i.e. pay the annexation fee or fund an endowment) to provide an ongoing funding source for the continued maintenance, enhancement, and or retrofit of parks, open spaces, linear parks, and/or trails systems, and programs.

    This condition must be fully satisfied prior to issuance of the 1st Certificate of Occupancy. This condition will be satisfied with the successful annexation /formation (i.e. special election process) into a special financing district and payment of all costs associated with the special election process. Annexation into a special financing district requires an annual payment of the annual special tax, assessment, or fee levied against the property tax bill, or other lawful means, of the parcels of the project for such district. At the time of the public hearing to consider annexation into or formation of the district, the qualified elector(s) will not protest the annexation or formation, but will retain the right to object to any eventual tax/assessment/fee that is not equitable should the financial burden of the tax/assessment/fee not be reasonably proportionate to the benefit the affected property receives from the improvements to be installed and/or maintained or services provided. The special election requires a minimum 90-day process in compliance with the provisions of Article 13C of the California Constitution, Proposition 218, or other applicable legislation, and consistent with the scheduling for City Council meetings.

    Alternatively, the condition can be satisfied by the Developer funding an endowment in an amount sufficient to yield an annual revenue stream that meets the annual obligation. The Developer must contact Special Districts Administration at 951.413.3470 or at SDAdmin@moval.org to satisfy this condition.

197. Street Light Authorization forms for all street lights that are conditioned to be installed as part of this project must be submitted to the Special Districts Division for approval, prior to street light installation. The Street Light Authorization form can be obtained from the utility company providing electric service to the project, either Moreno Valley Utility or Southern California Edison. For questions, contact the Special Districts Division at 951.413.3480 or specialdistricts@moval.org.

198. Parkway, open space, median, and or traffic circle landscaping specified in the project's Conditions of Approval shall be constructed in compliance with the approved landscape plans and completed prior to the issuance of the first Certificate of Occupancy/Building Final for this

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

project.

199. Right of Way Water Quality BMP Maintenance. The ongoing maintenance of any water quality BMP (e.g. Bioswale) constructed in the public right of way shall be the responsibility of a property owner association or the property owner.

200. Mylars of the landscape and irrigation plans shall be submitted on hanging tab to Landscape Services.

Transportation Engineering Division

201. Driveways shall conform to City of Moreno Valley Standard Plan No. MVSI-112C-0 for Commercial Driveway Approaches. Access at the driveways shall be as follows:
    - Redlands Boulevard northerly driveway: Full access for passenger vehicles only. No truck access.
    - Redlands Boulevard southerly driveway (50-feet wide): Right-in, left-in, right-out access for passenger vehicles only. No truck access.
    - Eucalyptus Avenue westerly driveway (50-feet wide): Full access for both passenger vehicles and trucks.
    - Eucalyptus Avenue easterly driveway (50-feet wide): Right-in, right-out access for passenger vehicles only. Only right-out access for trucks.
      NOTE: Truck directional signage per the approved signing and striping plan shall be installed.

202. All proposed on-site traffic signing and striping should be accordance with the latest California Manual on Uniform Traffic Control Devices (CAMUTCD).

203. Prior to issuance of an encroachment permit for work within the public right -of-way, construction traffic control plans prepared by a qualified, registered Civil or Traffic Engineer shall be required for plan approval by the City Engineer.

204. Prior to the final approval of the street improvement plans, a signing and striping plan shall be prepared per City of Moreno Valley Standard Plans - Section 4 for Redlands Boulevard, Eucalyptus Avenue, and Encelia Avenue. Signing and striping plans shall be prepared per the latest edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD) and current City of Moreno Valley Standard Plans by a qualified registered civil or traffic engineer.

205. Eucalyptus Avenue is classified as an Arterial (100'RW/76'CC) per City Standard Plan No. MVSI-104A-0. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility. A Class II bicycle lane shall be provided along project frontage. Additional improvements such as bicycle ramps, shared use path, or any additional bicycle treatment at the Redlands Boulevard/ Eucalyptus Avenue roundabout shall be considered during the design of street improvements.

206. Communication conduit will be required along the project's Redlands Boulevard frontage per City Standard Plan No. MVSI-186-0.

207. Prior to final approval of the landscape plans and construction plans for any type of fencing or monument sign, the project plans shall demonstrate that sight distance at the project driveways conforms to City Standard Plan No. MVSI-164A-0 through MVSI-164C-0. Trees, plants, shrubs, fencing, or monument signing shall not be located in an area that obstructs the drivers' line-of-sight.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

208. The final street improvement plans shall include a bus turnout, designed per the City of Moreno Valley Standard Plan No. MVSI-161-0, for the west side of Redlands Boulevard, south of Eucalyptus Avenue. Prior to the final approval of the street improvement plans, a median improvement plan shall be prepared by a registered civil engineer for a raised median on Redlands Boulevard along the project frontage. Restricted left-turn median opening per City of Moreno Valley Standard Plan No. MVSI-145-0 shall be designed to prohibit left-out and provide left-turn movements into the southern driveway on Redlands Boulevard. No movements shall be restricted for automobiles at the northern driveway on Redlands Boulevard. Median on Eucalyptus Avenue shall be modified to extend at least 30 feet west of the west BCR of easterly driveway on Eucalyptus Avenue.

209. Prior to the final approval of the street improvement plans, the project applicant shall design the intersection of Redlands Boulevard and State Route 60 Westbound Ramps to provide the following geometrics:
    - Northbound: One left turn lane, one through lane, one shared through/right turn lane
    - Southbound: One left turn lane, one through lane
    - Eastbound: One shared left turn/through/right turn lane
    - Westbound: One shared left turn/through/right turn lane

    NOTE: Improvements may require widening of the north leg of the intersection and traffic signal modifications. The City of Moreno Valley will aid the applicant if any right-of-way acquisition is necessary. If a traffic signal modification is necessary, prior to the final approval of the street improvement plans, a traffic signal modification plan shall be prepared for the existing traffic signal at Redlands and State Route 60 Westbound Ramps. Traffic signal modification shall be prepared per the latest edition of the California Manual on Uniform Traffic Control Devices (CAMUTCD) and current City of Moreno Valley Standard Plans by a qualified registered Civil Engineer and be submitted to California Department of Transportation (Caltrans) District 8 for their review and approval. The developer is responsible for obtaining a Caltrans encroachment permit prior to performing any work within Caltrans right-of-way.

210. Prior to issuance of a building permit, the project applicant shall pay all applicable DIF and TUMF. Payment of these fees cover the project's payment towards any future improvement for the intersections of Moreno Beach Drive and State Route 60 Eastbound Ramps, segment of Moreno Beach Drive from State Route 60 Westbound Ramps to State Route 60 Eastbound Ramps, intersection of Redlands Boulevard and State Route 60 Eastbound Ramps, segment of Redlands Boulevard from State Route 60 Westbound Ramps to State Route 60 Eastbound Ramps, as identified in the approved Traffic Impact Analysis, dated November 2020 and Environmental Impact Report, and future signalization of the Redlands Boulevard and Encelia Avenue intersections.

211. Prior to issuance of Certificate of Occupancy, all approved street improvements shall be installed to the satisfaction of the City Engineer.

212. Prior to issuance of Certificate of Occupancy, all approved signing and striping shall be installed per current City Standards and approved plans.

213. Prior to issuance of Certificate of Occupancy, raised median improvements and the bus turnout shall be completed and fully operational per the approved plans to the satisfaction of the City Engineer.

214. Prior to issuance of Certificate of Occupancy, all required improvements for the intersection of Redlands Boulevard and State Route 60 Westbound Ramps shall be completed and fully

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

operational per the conditions of approval and approved plans to the satisfaction of the City Engineer and Caltrans (if applicable).

215. Any gated entrance shall be provided with the following:
    - A storage lane with sufficient queuing length for entering commercial trucks.
    - Signing and striping in front of the gate.

    All of these features must be kept in working order.

216. Sight distance at the proposed roadways and driveways shall conform to City of Moreno Valley Standard No. MVSI-164A, B, C-0 at the time of preparation of final grading, landscape, and street improvement plans.

217. Redlands Boulevard is classified as a 4-Lane Divided Arterial (110'RW/86'CC) per City Standard Plan No. MVSI-103A-0 with any necessary roadway transitions south of this project. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility. A Class II bicycle lane shall be provided along project frontage. Additional improvements such as bicycle ramps, shared use path, or any additional bicycle treatment at the Redlands Boulevard / Eucalyptus Avenue roundabout shall be considered during the design of street improvements.

218. Encelia Avenue is classified as a Minor Arterial (88'RW/64'CC) per City Standard Plan No. MVSI-105A-1. Any modifications or improvements undertaken by this project shall be consistent with the City's standards for this facility.

219. In the event the applicant requests a traffic signal at the intersection of Redlands Boulevard and the northerly driveway on Redlands, the applicant shall initiate the process and prepare any necessary studies and improvement plans, as requested by the City, for review and approval of the City Engineer. The applicant shall be responsible for all costs associated with the construction of the traffic signal and shall enter into a maintenance agreement with the City.

220. Conditions of approval may be modified or added if a phasing plan is submitted for this development.

PARKS & COMMUNITY SERVICES DEPARTMENT

221. This project is subject to current Development Impact Fees.

222. Multi-use trail to be constructed in accordance with City's Master Plan of Trail and City standard drawings.

Standard Conditions

223. Detailed final plans (mylars, PDF, and AutoCAD file on a DVD-R) for parks, trails/bikeways, fencing, and adjoining landscaped areas shall be submitted to and approved by the Director of Parks and Community Services, or his /her designee, prior to the issuance of any building permits. All plans are to include a profile showing grade changes.

224. Within the improvements for PCS, the applicant shall show all existing and planned easements on all maps and plans. Easements on City/CSD owned or maintained parks, trails, bikeways, and landscape shall be identified on each of these plans with the instrument number of the recorded easement.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

225. Prior to grading permit, the applicant shall post security to guarantee construction or modification of parks, trails and/or bikeways for the City/CSD. Copies of said documentation shall be provided to PCS.

226. Applicable plan check and inspection fees shall be paid, per the approved City fee schedule.

227. The following plans require PCS written approval: Tentative tract/parcel maps; rough grading plans (including all Delta changes); Final Map; precise grading plans; street improvement plans; traffic signal plans; fence and wall plans; landscape plans for areas adjacent to bikeways; trail improvement plans. PCS will not approve any permits without review and approval of the above items.

Attachment: Resolution - General Plan Amendment - Tentative Parcel Map - Plot Plan [Revision 1] (6209 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2023-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, FINDING AND DETERMINING PURSUANT TO SENATE BILL NO. 330 THAT APPROVAL OF THE MORENO VALLEY TRADE CENTER PROJECT LOCATED ON LAND SITUATED ON EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL SHALL NOT RESULT IN A NET LOSS IN RESIDENTIAL CAPACITY
(APN'S 488-340-002 through 488-340-012)

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the item was scheduled for consideration by the City Council; however, the meeting was canceled and adjourned to December 6, 2022, with no action being taken; and

WHEREAS, on December 6, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on April 18, 2023, in accordance with the provisions of the California

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution No. 2023-__ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

WHEREAS, on October 9, 2019, the California Legislature adopted Senate Bill 330 (SB330), which was codified as Government Code Section 66300 and became effective January 1, 2020, declared a housing crisis in the State of California and imposed certain requirements designed to streamline the construction of new housing, and prevent the loss of existing housing and land available for future residential use, unless replaced in other areas of the affected jurisdiction to ensure that there is no net loss in the City's residential capacity; and

WHEREAS, in pertinent part, Government Code section 66300(h)(2)(i)(1) provides as follows:

> "This section does not prohibit an affected ... city from changing a land use designation or zoning ordinance to a less intensive use if the city ... concurrently changes the development standards, policies, and conditions applicable to other parcels within the jurisdiction to ensure that there is no net loss in residential capacity."; and

WHEREAS, in order to ensure its compliance with SB330, the City Council adopted Ordinance No. 965 amending Chapter 9.03 (Residential Districts) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code which added Section 9.03.065 (Density bonus program for SB330) to establish a density bonus program for certain residential projects; and

WHEREAS, Section 9.03.065 (Density bonus program for SB330) provides that, concurrent with the approval of any change in zone from a residential use to a less intensive or non-residential use, a density bonus will become available to project applicants subsequently seeking to develop property for residential use within the City, which ensures that there will not be any net loss of residential capacity within the City as mandated by SB330 to ensure development opportunities remain available throughout the planning period to accommodate the City's regional housing need allocation (RHNA), especially for lower- and moderate- income households.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

that the proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;

(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein, including without limitation Section 9.03.065 (Density bonus program for SB330) of Chapter 9.03 (Residential Districts) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code;

(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;

(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;

(e) Proposed conditions of approval for the Proposed Project;

(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;

(g) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;

(h) Staff Reports prepared for the City Council for the November 15, 2022 public hearing;

(i) Staff Reports prepared for the City Council for the December 6, 2022 public hearing;

(j) Staff Reports prepared for the City Council for the April 18, 2023 public hearing;

(k) Staff's presentation at the December 7, 2021 and April 18, 2023 City Council public hearings;

(l) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and April 18, 2023 public hearings; and

(m) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021, June 21, 2022, November 15, 2022, December 6, 2022, and April 18, 2023 public hearings.

Section 4. Findings and Determination of No Net Loss of Residential Capacity

That based on the foregoing Recitals and the Evidence, the City Council finds and determines that the estimated reduction of 145 potential dwelling units caused by or

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

resulting from General Plan Amendment (PEN19-0191) which changes the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP) and Change of Zone (PEN19-0192) which rezones the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI) and removes the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification will not result in a net loss in the number of potential residential units within the City of Moreno Valley since the number of dwelling units that will presumably be lost due to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192) shall be made available for development pursuant to the City's residential density bonus programs, as codified in Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code, which will ensure development opportunities remain available throughout the planning period to accommodate the City's regional housing need allocation (RHNA), especially for lower- and moderate-income households.

Section 5. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 6. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 7. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 8. Certification

That the City Clerk shall certify to the passage of this Resolution.

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS 18th day of April, 2023.

_____
Ulises Cabrera, Mayor

ATTEST:

_____
Jane Halstead, City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Resolution - No Net Loss (6209 : Moreno Valley Trade Center/Park)

ORDINANCE NO. 2023-__

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, AMENDING THE OFFICIAL ZONING ATLAS OF THE CITY OF MORENO VALLEY REZONING THE PARCELS IDENTIFIED AS ASSESSOR PARCEL NUMBERS 488-340-002 THROUGH 488-340-012 FROM RESIDENTIAL AGRICULTURE 2 DISTRICT (RA2) TO LIGHT INDUSTRIAL DISTRICT (LI) AND REMOVING SAID PARCELS' PRIMARY ANIMAL KEEPING OVERLAY (PAKO) OVERLAY CLASSIFICATION

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271square-foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

Attachment: Ordinance - Zone Change (6209 : Moreno Valley Trade Center/Park)

WHEREAS, the Proposed Project was considered by the Planning Commission at a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, Section 9.02.050 (Amendments to zoning districts or other provisions of Title 9) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code provides that following appeal of a decision by the Planning Commission to disapprove a proposed amendment to Title 9, including amendments to the Zoning Atlas, the City Council may approve, approve with modifications, or disapprove any proposed amendment, provided that prior to City Council action, any modification not previously considered by the Planning Commission shall first be referred to the Planning Commission for report and recommendation; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the item was scheduled for consideration by the City Council; however, the meeting was canceled and adjourned to December 6, 2022, with no action being taken; and

WHEREAS, on December 6, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

Attachment: Ordinance - Zone Change (6209 : Moreno Valley Trade Center/Park)

WHEREAS, on April 18, 2023, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on April 18, 2023, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution No. 2023-__ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a Statement of Overriding Considerations.

THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY ORDAIN AS FOLLOWS:

Section 1. Recitals

That the above recitals are true and correct and are incorporated herein by this reference.

Section 2. Notice

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the Proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the City Council has considered all of the evidence submitted into the administrative record for the Proposed Project, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;
(b) Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;
(c) Applications for 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193) and all documents, records and references contained therein;
(d) Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations;
(e) Proposed conditions of approval for the Proposed Project;
(f) Staff Reports prepared for the Planning Commission for its October 28, 2021 public hearing and the City Council for its December 7, 2021 public hearing;
(g) Staff Reports prepared for the City Council for the June 21, 2022 public hearing;
(h) Staff Reports prepared for the City Council for the November 15, 2022

Attachment: Ordinance - Zone Change (6209 : Moreno Valley Trade Center/Park)

public hearing;

(i) Staff Reports prepared for the City Council for the December 6, 2022 public hearing;

(j) Staff Reports prepared for the City Council for the April 18, 2023 public hearing;

(k) Staff's presentation at the December 7, 2021 and April 18, 2023 City Council public hearings;

(l) Testimony and/or comments from Applicant and its representatives during the December 7, 2021 and April 18, 2023 public hearings; and

(m) Testimony and/or comments from all persons that was provided in written format or correspondence, at, or prior to, the December 7, 2021, June 21, 2022, November 15, 2022, December 6, 2022, and April 18, 2023 public hearings.

Section 4. Findings

That based on the foregoing Recitals and the Evidence, the City Council makes the following findings:

(a) That General Plan Amendment (PEN19-0191) is consistent with existing goals, objectives, policies and programs of the 2040 General Plan and will not adversely affect the public health, safety or general welfare;

(b) That the Proposed Project, which includes Plot Plan (PEN19-0193), is consistent with the goals, objectives, policies and programs of the 2040 General Plan; complies with all applicable zoning and other regulations and will not be detrimental to the public health, safety or welfare or materially injurious to properties or improvements in the vicinity; and the location, design and operation of the Proposed Project will be compatible with existing and planned land uses in the vicinity;

(c) That Tentative Parcel Map (PEN19-0234) involves at least one parcel that is undeveloped by any structure for which a building permit was issued and is consistent with the 2040 General Plan; and

(d) That Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas is consistent with the 2040 General Plan and its goals, objectives, policies, and programs; will not adversely affect the public health, safety or general welfare; and is consistent with the purposes and intent of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code.

Section 5. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Ordinance be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Ordinance as hereby adopted shall remain in full force and effect.

Attachment: Ordinance - Zone Change (6209 : Moreno Valley Trade Center/Park)

Section 6. Repeal of Conflicting Provisions

That all the provisions heretofore adopted by the City Council that are in conflict with the provisions of this Ordinance, are hereby repealed.

Section 7. Effective Date

That this Ordinance shall take effect thirty (30) days after its second reading.

Section 8. Certification

That the City Clerk shall certify to the passage and adoption of this Ordinance, enter the same in the book for original ordinances of the City, and make a minute of passage and adoption thereof in the records of the proceedings of the City Council, in the minutes of the meeting at which this Ordinance is passed and adopted.

PASSED AND ADOPTED THIS 18th day of April, 2023.

_____
Ulises Cabrera, Mayor

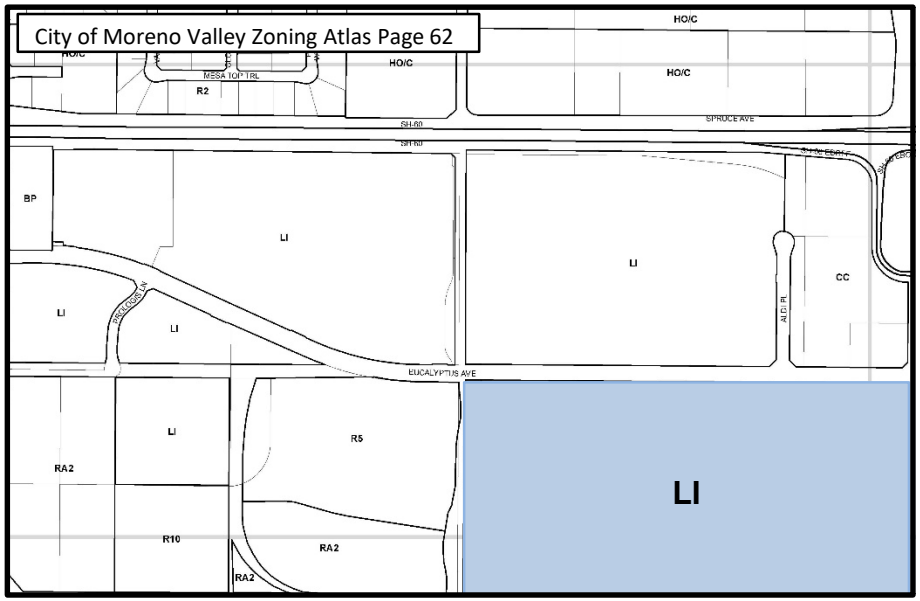
ATTEST:

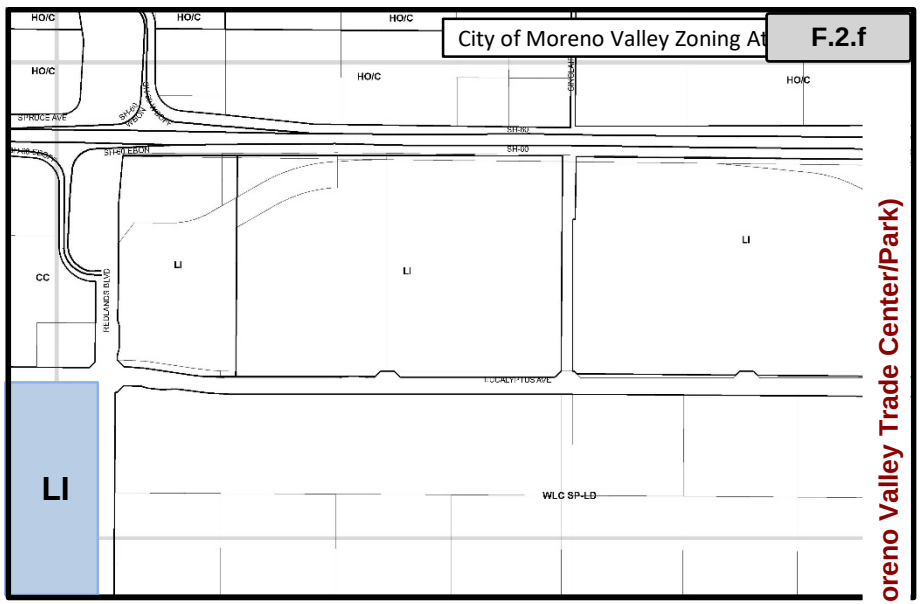
_____
Jane Halstead, City Clerk

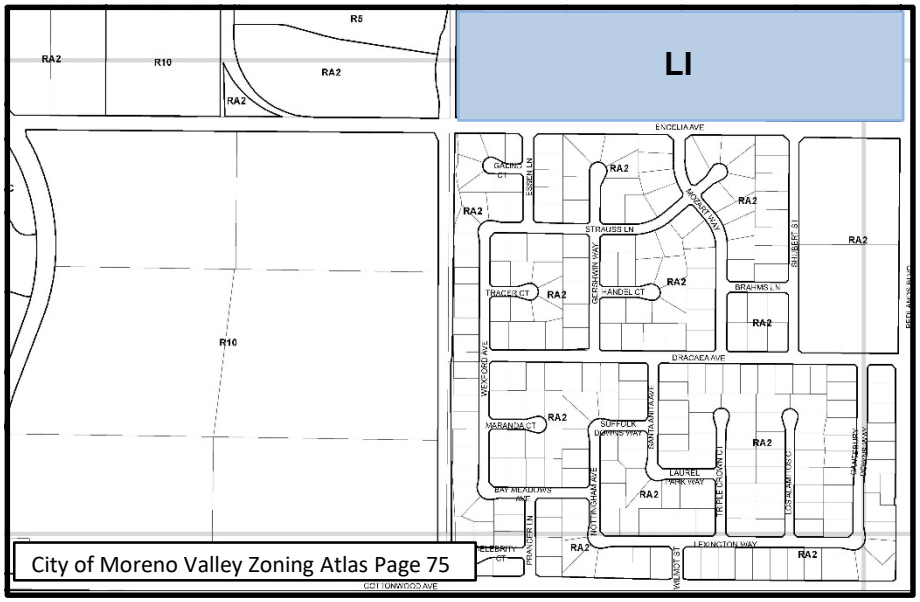
APPROVED AS TO FORM:

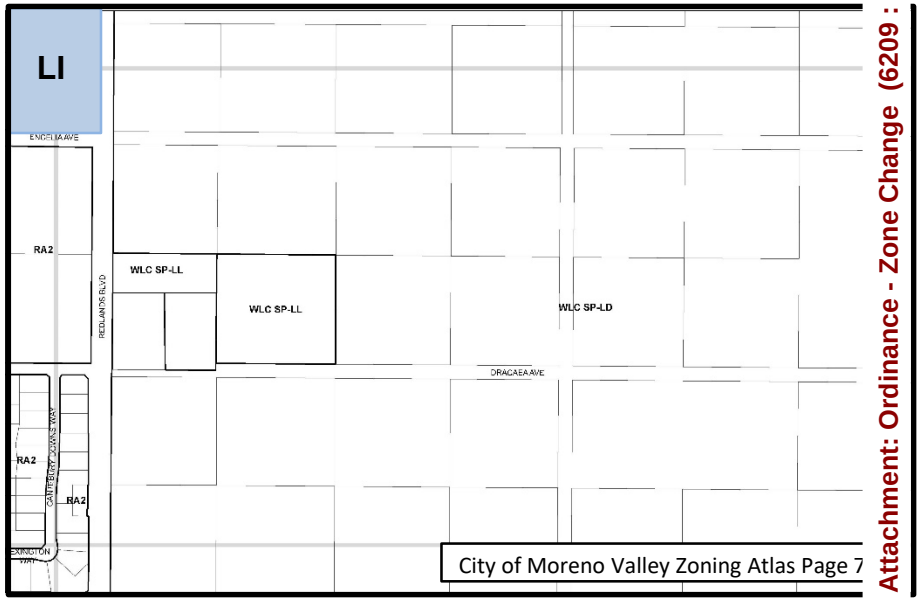
_____
Steven B. Quintanilla, Interim City Attorney

Attachment: Ordinance - Zone Change (6209 : Moreno Valley Trade Center/Park)









PEN19-0192 – Change of Zone

Residential Agriculture 2 (RA2) to Light Industrial (LI)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

RESOLUTION NUMBER 2023-__

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, ACCEPTING THE COMMUNITY BENEFITS VOLUNTARILY OFFERED BY MVTC, LLC WHICH ARE NOT CONDITIONS OF APPROVAL OR MITIGATION MEASURES IMPOSED BY THE CITY FOR THE MORENO VALLEY TRADE CENTER PROJECT

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California; and

WHEREAS, MVTC, LLC, a Delaware limited liability company ("Applicant") is proposing the development of a 1,263,271 square foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an e-commerce facility, commonly known as the Moreno Valley Trade Center ("Proposed Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Environmental Impact Report (EIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the Proposed Project is located on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, the Proposed Project includes the following requested entitlements: 1) General Plan Amendment (PEN19-0191), 2) Change of Zone (PEN19-0192) and corresponding amendment to the City's Zoning Atlas, 3) Tentative Parcel Map (PEN19-0234), and 4) Plot Plan (PEN19-0193); and

WHEREAS, the purpose of General Plan Amendment (PEN19-0191) is to change the Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map from Residential 2 (R2) to Business Park (BP); and

WHEREAS, the purpose of Change of Zone (PEN19-0192) is to rezone the Project Site from Residential Agriculture 2 District (RA2) to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; and

WHEREAS, the purpose of Tentative Parcel Map (PEN19-0234) is to merge the existing 11 parcels into a single parcel; and

WHEREAS, the purpose of Plot Plan (PEN19-0193) is to construct an approximately 1,263,271 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements; and

WHEREAS, the Proposed Project was considered by the Planning Commission at

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

a duly noticed public hearing conducted on October 28, 2021, and the Planning Commission voted 4-0 to deny the Proposed Project; and

WHEREAS, the Applicant appealed the Planning Commission's decision as set forth in Appeal Application (PAA21-0001) and a duly noticed public hearing on the appeal was conducted by the City Council on December 7, 2021; and

WHEREAS, at the public hearing held on December 7, 2021, the City Council did not rule on the appeal, but rather, after receiving public testimony unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain; and

WHEREAS, the Applicant has taken into consideration several issues raised by the Planning Commission in its denial of the Proposed Project and input it received from members of the public and the City Council at the December 7, 2021 public hearing, and submitted various revisions to the Proposed Project that the Applicant represented are responsive to the various concerns raised by members of the public, the Planning Commission and the City Council; and

WHEREAS, since none of the proposed revisions presented by the Applicant nor recommended by staff require any modifications or revisions to General Plan Amendment (PEN19-0191) and Change of Zone (PEN19-0192), as originally presented on October 28, 2021, at the Planning Commission public hearing and on December 7, 2021 City Council public hearing, the City Council is not required to refer the Proposed Project back to the Planning Commission for a recommendation prior to taking final action of the Proposed Project, as revised; and

WHEREAS, on June 21, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on November 15, 2022, the item was scheduled for consideration by the City Council; however, the meeting was canceled and adjourned to December 6, 2022, with no action being taken; and

WHEREAS, on December 6, 2022, the City Council did not rule on the appeal, but rather, unanimously voted to continue the public hearing regarding the Draft EIR and the Proposed Project to a date uncertain prior to reopening the public hearing; and

WHEREAS, on April 18, 2023, the City Council conducted a duly noticed continued public hearing on the Proposed Project, as revised, and considered the Proposed Project's Environmental Impact Report and related Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations; and

WHEREAS, on April 18, 2023, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the City Council considered and approved Resolution No. 2023-__ certifying the Proposed Project's Environmental Impact Report, adopting a Mitigation Monitoring and Reporting Program and approving a

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Statement of Overriding Considerations; and

WHEREAS, in addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous "Community Benefits," as described in the letter attached hereto as Exhibit A, that fall beyond the City's legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlement since there is not a sufficient nexus to the potential impacts of the Proposed Project; and

WHEREAS, notwithstanding above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval; and

WHEREAS, the Community Benefits offered by the Applicant include providing up to $204,000 to fund and administer several electric vehicle grant programs, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles which the Applicant shall be responsible for establishing, funding and administering; and

WHEREAS, the Applicant has also offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park; and

WHEREAS, the Applicant has further offered that only electrical appliances shall be used in building office areas, and the use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply, and that all construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Proposed Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability; and

WHEREAS, in addition to the above-referenced Community Benefits, the Applicant has offered to develop and construct an 18-acre park facility, accommodating two full-size size fully lighted soccer fields, a fully lighted baseball field, a snack bar/concession, public restrooms, a walking path, playground, exercise equipment, landscaping and related parking, as more particularly described in the Community Park Acquisition and Improvement Agreement, attached hereto as Exhibit B; and

WHEREAS, all of the Community Benefits referenced above, and the development of the Community Park are neither CEQA-related mitigation measures nor conditions of approval that the City has the legal authority to unilaterally impose on the Applicant or the Proposed Project, due to the lack of the requisite nexus that is otherwise required in order to unilaterally impose as environmental mitigation measures or conditions of approval on an applicant or a proposed development project that requires discretionary approval; and

WHEREAS, notwithstanding above, the Applicant has agreed that everything

being offered by the Applicant be memorialized as enforceable conditions which means the City will be able to use code and permit enforcement procedures to ensure implementation; and

WHEREAS, section 37354 of the Government Code permits the City Council to accept or reject any gift, bequest, or devise made to the City, subject to any limitations imposed by the donor.

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached Exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Acceptance of Community Benefits

That pursuant to section 37354 of the Government Code, the City Council hereby accepts, on behalf of the City of Moreno Valley, the Community Benefits, as described in Exhibit A, and the offer to develop a Community Park pursuant to the Community Park Acquisition and Improvement Agreement attached hereto as Exhibit B.

Section 3. Authority to Execute Agreement

That the City Manager is hereby directed and authorized to execute the Community Park Acquisition and Improvement Agreement attached hereto as Exhibit B. Agreement and to approve any subsequent amendments, subject to the consent of the City Attorney, consistent with the intent and purposes of the Agreement.

Section 4. Enforceability

That as offered by the Applicant, the Community Benefits hereby offered by the Applicant and accepted by the City, as set forth in Exhibit A, shall be memorialized as enforceable conditions which shall permit the City to use code and permit enforcement procedures to ensure implementation of each of the Community Benefits.

Section 5. Repeal of Conflicting Provisions

That all the provisions as heretofore adopted by the City Council that are in conflict with the provisions of this Resolution are hereby repealed.

Section 6. Severability

That the City Council declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as

hereby adopted shall remain in full force and effect.

Section 7. Effective Date

That this Resolution shall take effect immediately upon the date of adoption.

Section 8. Certification

That the City Clerk shall certify to the passage of this Resolution.

PASSED AND ADOPTED THIS 18th day of April, 2023.

_____
Ulises Cabrera, Mayor

ATTEST:

_____
Jane Halstead, City Clerk

APPROVED AS TO FORM:

_____
Steven B. Quintanilla, Interim City Attorney

Exhibits:
Exhibit A - Letters Offering Community Benefits
Exhibit B - Community Park Acquisition and Improvement Agreement

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

EXHIBIT A

LETTERS OFFERING COMMUNITY BENEFITS

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

MVTC, LLC
901 Via Piemonte, Suite 175
Ontario, CA 91764

December 1, 2021

VIA FEDERAL EXPRESS AND
E-MAIL – CityClerk@moval.org

Honorable Mayor and Members of the City Council
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

Dear Honorable Mayor and Members of the City Council:

MVTC, LLC, ("Hillwood") presents this letter as a commitment to the City of Moreno Valley to integrate the below Community Benefits into our proposed Moreno Valley Trade Center project ("Project") as either Project design features, minimization measures and/or similar mechanisms, conditioned only on Project approval. The Project is currently before the City as application PEN19-0191 (General Plan Amendment); PEN19-0192 (Change of Zone); PEN19-0193 (Plot Plan); and PEN 19-0234 (Tentative Parcel Map). Key components of this commitment include:

- Heavy Duty Truck Grants Quantity 5 Value: $125,000
- Medium Duty Truck Grants Quantity 2 Value: $27,000
- Local Delivery Truck Grants Quantity 3 Value: $27,000
- Local Community Passenger Vehicle & Zero Emission Transportation Grants Quantity: 25 Value $25,000
- Donation to Electric Vehicle Advocacy Fund Value $5,000
- Donation to Solar Advocacy Fund $5,000
- Install minimum of 12 onsite EV Chargers
- Residential Air Filtration Reimbursement Program Value $40,000
- Residential Noise Insulation Reimbursement Program Value: $64,000
- Residential Exterior Pressure Washing Reimbursement Value: $4,000
- Design the Building to achieve LEED Silver certification standards
- Provide setback from residences (434' from Building to centerline of Encelia) and landscape screening (599 trees total on site, focusing on large specimen-24" box-, evergreen and California native trees)
- Install 14 foot-tall walls for noise mitigation
- Provide enhanced architecture (glass, metal articulation, variety of colors and textures)
- Install new, multi-purpose trails along east and west sides of project site
- Install above-standard offsite storm drain – 78" pipe from Encelia Avenue south to Dracaea allowing system to satisfy master plan

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

We look forward to contributing to the betterment of the Moreno Valley community.

Sincerely,

MCTV, LLC
a Delaware limited liability company

By: _____
Scott Morse
Vice President

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

COMMUNITY BENEFITS

The Project Applicant/Developer offered to provide the benefits set forth below, as enforceable special conditions of approval. As such, none of the following special conditions of approval shall be considered Mitigation Measures under CEQA.

1. **Heavy Duty Electric Truck Grant Program - $125,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $125,000 for the purpose of providing grants to private third parties for the purchase of at least five Class 8 Heavy Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Heavy Duty Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor, and shall give special priority for drayage trucks that will be used in the City of Moreno Valley and along the Highway 60 corridor. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.
The award of the Heavy Duty Electric Truck Grants shall include the following two conditions:

(1) A prohibition on the resale of the Heavy Duty Electric Truck to an entity that will operate trucks outside of California; and

(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Heavy Duty Electric Truck that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Heavy Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

2. **Medium Duty Electric Truck Grant Program - $27,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit.
$27,000 for the purpose of providing grants to private third parties for the purchase of at least two Class 6 and/or Class 7 Medium Duty Electric Trucks. The Program shall prioritize grant applicants who will use their Medium Electric Trucks in the City of Moreno Valley and along the Highway 60 corridor. Only if there is no demand for Class 6 and Class 7 Medium Duty Electric Trucks, shall the grants be provided for the purchase of Class 4 and Class 5 Medium Duty Electric Trucks, with priority given to Class 5 over Class 4 Medium Duty Electric Trucks. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

The award of the Medium Duty Electric Truck Grants shall include the following two conditions:

(1) A prohibition on the resale of the Medium Duty Electric Truck to an entity that will operate trucks outside of California; and

(2) 85% of the mileage must occur in the SCAQMD region, which shall be enforced using a geo -fencing electronic system on each Medium Duty Electric Truck that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Medium Duty Electric Truck Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

3. **Local Delivery Electric Vehicle Program - $27,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $27,000 for the purpose of providing grants to private third parties for the purchase of at least three Local Delivery Electric Vehicles (generally referred to as Class 1, 2, and 3 trucks) for use for deliveries within the City of Moreno Valley and the immediate vicinity.

The Program shall prioritize grant applicants who occupy buildings situated within the Project Site that are located the closest to any developed residential areas and intend to use the grant proceeds to purchase the highest class of Class 1, 2, and 3 trucks for which there is demand. The grants shall be awarded prior to the issuance of the first Certificate of Occupancy for the Project.

The award of the Local Delivery Electric Truck Grants shall include a condition that requires that 50% of the mileage must occur in Moreno Valley and the Highway 60 corridor, which shall be enforced using a geo-fencing electronic system on each Local Delivery Electric Vehicle that has been funded by the Program.

The Developer shall be responsible for establishing, funding and administering the Local Delivery Electric Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

4. **Electric Passenger Vehicle Grant Program - $25,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $25,000 for the purpose of providing 25 $1,000 grants to Moreno Valley residents for the purchase of electric passenger vehicles.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

The Program shall prioritize grant applicants who occupy households earning not more than 150% of the Area Median Income, as calculated by the U.S. Department of Housing and Urban Development.

The Developer shall be responsible for establishing, funding and administering the Electric Passenger Vehicle Grant Program, and provide a hyperlink to the Program that the City that may post on the City's official website for interested parties to access information about the Program.

5. **Electric Vehicle Advocacy Fund - $5,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non - profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of electric vehicles and /or provides outreach, education, and training on the maintenance of zero - emissions vehicles.

Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.

The Developer shall be responsible for establishing, funding and administering the Electric Vehicle Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

6. **Solar Advocacy Fund - $5,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $ 5,000 for the purpose of contributing the proceeds to a bona fide California non - profit organization, in good standing, that focuses on informing and educating members of the general public about the environmental benefits of solar -generated electricity and/or provides outreach, education, and training on the installation and maintenance of solar panels and equipment.

Non-profit organizations, including without limitation to labor and /or environmental organizations, that are located in the City of Moreno Valley or which provide services to Moreno Valley residents shall be prioritized.

The Developer shall be responsible for establishing, funding and administering the Solar Advocacy Fund to ensure that the grant funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

may post on the City's official website for interested parties to access information about the Fund.

7. **Residential Air Filtration Reimbursement Program - $40,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $40,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing non-portable air filtration systems including any necessitated HVAC modification, not exceeding $5,000 per home, as follows:

(a) The homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001); and

(b) The homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the air filtration system, not exceeding $5,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Air Filtration System Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.

The Developer shall be responsible for establishing, funding and administering the Residential Air Filtration System Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City's official website for interested parties to access information about the Fund.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

8. **Residential Noise Insulation Reimbursement Program - $64,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $64,000 for the purpose of paying up to 90% of a Moreno Valley's homeowner's cost of purchasing and installing noise insulation measures, not exceeding $8,000 per home, as follows:

a. The homeowner's home is an eligible home with the following address:

- 28572 Galino Court (APN: 478-400-041)
- 28602 Galino Court (APN: 478-400-016)
- 28608 Galino Court (APN: 478-400-017)
- 13020 Essen Lane (APN: 478-401-001)
- 13025 Gershwin Way (APN: 478-301-010)
- 13026 Gershwin Way (APN: 478-301-009)
- 13031 Mozart Way APN: 478-301-001)
- 28778 Strauss Lane (APN: 478-303-013)
- 28794 Strauss Lane (APN:478-303-012)
- 28810 Strauss Lane (APN: 478-303-011)
- 13031 Shubert Street (APN: 478-303-001), and

b. The homeowner requests payment within five years of the commencement of grading or commencement of construction of the first warehouse building. In the event a homeowner has a household income less than 80% of the Area Median Income as determined by the Department of Housing and Urban Development, the Project Applicant shall pay 100% of the cost of the noise insulation, not exceeding $10,000 per home. The homeowner shall be permitted to select and contract with a contractor or installer of the homeowner's choice.

The Developer shall mail notice of the Residential Noise Insulation Reimbursement Program via registered or certified mail to homeowners of record of the eligible homes prior to the issuance of the Project's first grading or building permit and annually thereafter for four years. The notice shall identify the exact date when the five-year period starts and ends.
The Developer shall be responsible for establishing, funding and administering the Residential Noise Insulation Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

9. **Residential Exterior Pressure Washing Reimbursement Program - $4,000**

Prior to the issuance of the first building permit for the Project, the Developer shall establish a trust account or escrow account in which Developer shall deposit $

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

4,000 for the purpose of reimbursing each homeowner for exterior pressure washings of the first two rows of homes on the south side of Encelia Avenue up to $ 500 per house during any on-site or off-site grading activities, not exceeding a total sum of $4,000.

The Developer shall be responsible for establishing, funding and administering the Residential Exterior Pressure Washing Reimbursement Program to ensure that the reimbursement funds are properly used, and provide a hyperlink to information regarding the availability of the funds that the City that may post on the City 's official website for interested parties to access information about the Fund.

10. **Onsite EV Chargers and APU Plug-Ins**

Prior to the issuance of the first Certificate of Occupancy for the Project, the Developer at its own cost shall install at a minimum, 12 onsite EV charging stations. In addition, prior to the issuance of the first Certificate of Occupancy for the Project, the Developer shall install at its own cost at least one APU plug -in for every 35 dock doors at multiple locations within the Project Site where trucks park, with signage that identifies in English and Spanish where such APU plug-ins are located. Signage at each EV parking space shall also state that the EV parking space is for EVs only and improperly parked vehicles shall be towed.

11. **LEED Silver Certification Standards**

The Developer shall design the Project's main building's shell and core to meet the Leadership in Energy and Environmental Design (LEED)-equivalent "Silver" Certification standards. If the Developer advertises any building within the Project Site as having LEED Silver Certification, it shall apply for and obtain such certification prior to distributing or publishing any such advertisement. If LEED Silver Certification is granted, notice shall be provided to the City and any interested parties submitting a written request for proof of LEED Silver Certification.

12. **Electrical Appliances**

Only electric appliances shall be used in building office areas (e.g., electric stoves).

13. **Diesel Powered Generators**

The use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply.

14. **Construction Equipment**

All construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project.
In the event that any portable or stationary diesel-powered construction equipment becomes available with improved emission control devices that reduce particulate matter emissions, including fine particulate matter, and reduces NOx emissions at commercially reasonable prices, and in sufficient quantities to be reasonably available, then the Developer may cause the use of such construction equipment. Otherwise, no stationary or portable diesel-powered generators may be used, during construction, unless necessary due to emergency situations or constrained supply.

15. **Lighting Program**

The Developer shall establish a Lighting Program that incorporates the following: (a) implements measures that are intended to reduce light and glare to maximum extent practicable; (b) implements a lighting program in compliance with International Dark Sky Association standards, except where doing so would violate safety requirements or federal, state, county or City regulations; (c) requires all exterior lighting, including street lights, to be 2,700 Kelvin; (d) commands the installation of motion sensors on all interior lighting consistent with applicable Title 24 regulations; (e) mandates the installation of full cut-off luminaries on all buildings and poles situated within the Project Site; (f) orders the posting of signs on-site stating that truck head lights shall be turned off within five minutes of truck parking; (g) requires all construction lighting to be shielded and directed away from the Project's property lines; and (h) limits the height of all outdoor freestanding and wall-mounted lights to no more than 20 feet within 180 feet of the centerline of any public streets, except where doing so would violate safety requirements or any federal, state, county or City regulations.

16. **Landscaping Requirements**

The Developer shall plant at least 599 trees at the Project Site, consistent with the following:

a. **Screening**: Along the perimeter edges of the Project Site facing the existing residential neighborhood, it shall be developed to screen future buildings with walls, and/or landscaping. For all buildings along the perimeter edges of the Project Site, all buildings and roof mounted equipment shall be substantially screened by walls and/or landscaping which remains in a state of maturity and non -deciduous at all times of the year. "Substantially screened" means that while there might be some view of the buildings looking through the foliage, the buildings will be mostly obscured from view.

b. **Large Trees**: At least 50% of the trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood shall be

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

24-inch box trees.

c. **Evergreen Trees**: Evergreen trees, which include all species of decorative non- deciduous trees, shall constitute 95% of all 24-inch box trees planted along the perimeter edges of the Project Site which face the existing residential neighborhood. The 24-inch box evergreen trees shall be concentrated towards the higher topographic elevations within the perimeter edges of the Project Site to maximize screening.

d. **Palm Trees**: Palm trees may only be planted in accent areas only.

e. **Accent Elements**: To the extent practicable, in order to create visual interest, site contours shall vary and accent elements, such as boulders, which shall be placed along the frontage of the perimeter edges of the Project Site facing the existing residential neighborhood.

f. **Layered Effect**: Along the perimeter edges of the Project Site facing the existing residential neighborhood, trees shall be planted at varied depths from the Project Site's property line so that instead of creating a uniform and linear appearance, the planted trees create a layering effect as viewed from adjacent streets so as to maximize screening of buildings.

g. **Maintenance**: Trees shall be maintained in their natural form and shape with minimal pruning and all dead trees shall be promptly removed and replaced with similar type and size trees.

h. **Parking Area Trees**: Trees planted in the Project Site's parking areas shall be capable of achieving 50% shading within ten years of planting.

i. **Invasive Non-Native Vegetation**: Invasive non-native vegetation, such as certain grasses, shrubs, and sub-shrubs shall be removed from the Project Site as part of the Project's regular landscaping services.

j. **Entire Site**. Evergreen trees, which include all species of decorative non-deciduous trees, shall constitute 50% of all trees planted within the Project Site.

17. **Trucks**:

a. **Drive Aisle Walls**: All portions of truck circulation drive aisles that are visible from any existing home within 1,000 feet of the perimeter edges of the Project Site shall be shielded by walls at least 14 feet high, upon approval of the City to ensure no traffic safety issues are created. In no case, however, shall any such walls be lower than 12 feet high.

b. **Turning Measures**: The Developer shall design and install on -site physical

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

improvements, including but not limited to curbs, street humps, street bumps or textured pavement, approved by the City, that discourage truck operators from turning their trucks in the wrong direction when entering or leaving the Project Site.

c. **Directional Signage**: The Developer shall install on-site signage clearly stating which directions trucks must turn at all streets exiting the Project Site.

18. **Construction Activities:**

a. No nighttime grading or outside construction between 6:00 p.m. and 7:00 a.m. shall be conducted within 1,000 feet of any existing home across the street along the perimeter edge of the Project Site, except if necessary for concrete pours.

b. The Developer shall provide notice to residents within 100 feet of any portion of the perimeter edge of the Project Site, at least one week prior to construction between 6:00 p.m. and 7:00 a.m.

c. Construction trucks shall be prohibited from using Encelia Street., other than for infrastructure construction or necessary detours.

d. Lunch vendor services shall be provided on-site during the construction phase of the construction phase of the Project.

19. **Parking:**

a. The Project shall include preferential parking for carpools and vanpools equal to 5% of the total number of on-site parking spaces.

b. The Project shall include designated parking spaces for motorcycles.

c. The Project shall provide sufficient on-site truck parking within the on-site parking areas to enable all trucks reasonably expected to visit the Project to park on-site (as determined by a qualified transportation engineer).

20. **Rooftops:**

Warehouse roof areas not covered by solar panels shall be constructed with materials with an initial installation Solar Reflective Index Value of not less than 39.

21. **Trash Removal:**

Trash removal within and along all perimeter edges of the Project Site shall occur at least weekly or within three business day of receipt of notification to any occupant of the Project or the Project's management or community ombudsman.

22. **Signage:**

Developer agrees to augment the sign prohibiting truck traffic southbound on Redlands (said sign currently located at the NW corner of Eucalyptus and Redlands) to a larger size and more prominent design, subject to review and approval by City staff.

23. **Backup Alarms:**

To reduce noise associated with the use of backup alarms, either ambient-sensitive self-adjusting backup alarms or manually adjustable alarms shall be used on all equipment in use on the project site that requires a backup alarm. Ambient-sensitive self-adjusting backup alarms shall be equipped to increase or decrease their volume based on background noise levels by self-adjusting to produce a tone that is readily noticeable over ambient noise levels, which is typically a minimum of 5 decibels above the ambient noise, but not so loud as to be a constant annoyance to neighbors. Close attention shall be given to the alarm's mounting location on the machine in order to minimize engine noise interference, which can be sensed by the alarm as the ambient noise level. An alarm mounted directly behind a machine radiator shall be equipped to sense the cooling fan's noise and adjust accordingly. If ambient backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the ambient backup alarm system. If manually-adjustable alarms are used, which eliminates the machine mounting location problem of the ambient-sensitive self-adjustable backup alarms, each such alarm shall be set at the beginning of each day and night shift. If manual backup alarms are utilized, a log shall be maintained that describes the type and timing of maintenance of each piece of equipment that is essential to the effective operation of the manual backup alarm system. Alternatively, backup movements can be supervised with a guide and flagging system if permitted under applicable OSHA regulations. If a flagging system is used, a log shall be maintained that describes the type of equipment used, if any, and the name of each flag person. All Logs shall be retained for a minimum of 12-months and be readily available to the City of Moreno Valley for inspection purposes during normal business hours.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

MVTC, LLC
901 Via Piemonte, Suite 175
Ontario, CA 91764

June 14, 2022

VIA FEDERAL EXPRESS AND
E-MAIL - CityClerk@moval.org

Honorable Mayor and Members of the City Council
City of Moreno Valley
14177 Frederick Street
P.O. Box 88005
Moreno Valley, California 92553

Re: Moreno Valley Community Foundation

Dear Honorable Mayor and Members of the City Council:

I am writing to you regarding Hillwood's proposed "Moreno Valley Trade Center" project located south of Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of the Quincy Channel, in the eastern portion of Moreno Valley, California. This letter supersedes all other letters written by us regarding the subject.

Hillwood is desirous of creating community benefits in connection with implementation of Hillwood's proposed project in Moreno Valley.

The purpose of this letter is to advise you that Hillwood would be pleased to make a $500,000 contribution to the Foundation at the time that our project entitlements become final and non-appealable. This contribution would be made in furtherance of Hillwood's partnership with the Moreno Valley community.

Very truly yours,

MTVC, LLC,
a Delaware limited liability company

By: _____

Scott Morse
Executive Vice President

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

MVTC, LLC
901 Via Piemonte, Suite 175
Ontario, CA 91764

April 13, 2023

Via Email Delivery
Mr. Mike Lee, City Manager
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553

RE: Hillwood Project: Moreno Valley Trade Center

Dear Mike,

By this letter, Moreno Valley Trade Center, LLC is offering the following enhancements to the Moreno Valley Trade Center Project, subject to the Project being approved and the approval being final and non-appealable:

1. MVTC will donate $1,000,000 of annual revenue to the Moreno Valley Community Foundation for the first fifteen years of the project. The first annual payment will be made twelve months following the first certificate of occupancy for the project.

2. MVTC will donate a one-time payment of $15,000,000 to the Moreno Valley Community Foundation upon the first certificate of occupancy.

3. MVTC will restrict the height of the building to 60 feet from the 100 feet previously studied, substantially reducing the mass of the building and its impact on the environment.

2. MVTC will agree to exclusively market the project for manufacturing uses for a period of one year after City Council approval.

3. MVTC will agree to add a community youth center to the park it has previously proposed. The youth center will be approximately 9,000 square feet with classrooms, multi-purpose rooms, and offices.

4. MVTC will name the previously proposed park the “Kawhi Leonard Youth Park”.

5. MVTC will partner with the Kawhi Leonard Foundation or Kawhi Leonard Academy to provide youth programs for the residents of Moreno Valley. In this effort, MVTC will donate $250,000 to Kawhi Leonard’s Academy to facilitate such programs.

6. MVTC will construct two mega tesla charger stations onsite to help speed up the adoption of electric vehicle trucks. With the first such installation in the region, this will position Moreno Valley at the forefront of early adoption of electric truck technology.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Mr. Mike Lee
City of Moreno Valley
April 13, 2023

Please let me know if there is anything further that we need to do to present this offer to the City Council.

Very truly yours,

MTVC, LLC,
a Delaware limited liability company

By: _____
Scott Morse
Executive Vice President

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

EXHIBIT B

COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT

This COMMUNITY PARK ACQUISITION AND IMPROVEMENT AGREEMENT ("Agreement") is made and entered into as of May 26, 2022 (the "Effective Date"), by and between INDUSTRIAL VI ENTERPRISES, LLC, a Delaware limited liability company ("Developer") and THE CITY OF MORENO VALLEY ("City") (individually, a "Party" and collectively the "Parties"), with respect to the following:

RECITALS

A. Developer is proposing to construct a 1,263,271 square foot logistics facility located south of Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue and east of the Quincy Channel within the City, commonly known as the "Moreno Valley Trade Center (the "Project"). The land use entitlement applications for the Project are subject to discretionary review by the City and include requests for approval of a General Plan Amendment (PEN19-0191), a Change of Zone (PEN19-0192), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193) ("Pending Entitlements").

B. Due to its significant investment within the community, Developer wishes to create enhanced community benefits within the City and has proposed to develop a new, 18 gross-acre community park ("Community Park") at the southwest corner of Redlands Boulevard and Ironwood Avenue within the City ("Park Site"), at Developer's sole cost.

NOW THEREFORE, in consideration of the mutual covenants and agreements contained in this Agreement and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Developer and City hereby agree as follows:

AGREEMENT

1. Community Park. Developer shall acquire fee title to certain real property for the development of the Community Park and construct the following Community Park improvements at its sole cost and expense:

(a) Two (2) full-size fully lighted community soccer fields, one (1) fully lighted baseball field, a playground, exercise equipment, and related landscaping;

(b) Site lighting for night security and general illumination;

(c) CMU/Stick Frame Building to house public restrooms, a snack bar/concession, and requisite Electrical Room/IDF Room and construct said facilities;

(d) Code-required ADA access walking path that is aligned in such a manner that circulates the entire Community Park and connects all public facilities and amenities within the Community Park with public parking and access from adjacent public sidewalks and any existing or proposed public trails;

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

(e) Code-required parking;

(f) Connection to public water, power, and telephone and installation of a self-contained septic system; and

(g) Offsite improvements along the Community Park street frontages.

2. No Cost to City. Fee title to the land for the Community Park will be acquired by Developer at its sole cost and all improvements shall be installed by Developer without any financial assistance, labor, equipment, or materials provided by the City.

3. Construction and Entitlement Schedule. Within sixty (60) days of execution of this Agreement, Developer and City shall negotiate, in good faith, to reach an agreed-upon development schedule (including timelines for entitlement and construction of the Community Park), which shall be in writing and included as an addendum to this Agreement. Developer agrees to use commercially reasonable efforts to expeditiously work towards completion of the Community Park in accordance with the development schedule and City agrees to utilize all reasonable efforts to expedite entitlement review and permit plancheck in order to expedite the development of the Community Park; notwithstanding, Developer and City agree that the development schedule may be amended as necessary upon written approval of each Party, which shall not be unreasonably withheld.

4. City Permits and Approvals. Within sixty (60) days of the later of Developer's Pending Entitlements for the Project becoming final and non-appealable and the expiration of all applicable statutes of limitation and/or conclusion of any litigation challenging City's approval of the Project, Developer shall submit applications to City for all necessary entitlements, permits and approvals for construction of the Community Park, including offsite improvements along the street frontage only, and shall pay all application fees associated therewith. City agrees to expeditiously process all such applications.

5. Dedication and Maintenance. Fee title to the real property for the Community Park and all improvements shall be donated by Developer to City before a final Certificate of Occupancy is issued for any building or structure within the Community Park, without any liens, mortgages, non-public utility easements, or any other encumbrances. City shall take all necessary actions to approve and authorize City's acceptance of the Community Park dedication, including the drafting and execution of all agreements and documents necessary to facilitate the dedication. Title to, and ownership of, all improvements constructed hereunder by Developer shall vest absolutely in City upon completion and acceptance of such improvements by City.

Upon issuance of all final Certificate(s) of Occupancy for the park, Developer shall have no further obligations with respect to maintenance or repair of the Community Park or any on-site or offsite improvements or utility connections, which shall become the sole responsibility of the City.

6. No Relationship to Project. The Parties agree and acknowledge that the Community Park is entirely separate from Developer's Project and is being proposed as a separate community benefit. The Community Park shall be subject to separate review and approval by the City.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

7. Approval of Project – Condition Precedent. Notwithstanding anything herein to the contrary, Developer's obligations hereunder shall immediately terminate, and no provision of this Agreement shall have further force or effect, in the event that the Pending Entitlements for the Project are denied or appealed and overturned.

8. No Agency. Neither Developer nor any of Developer's agents, contractors, or subcontractors are or shall be considered to be agents of City in connection with the performance of Developer's obligations under this Agreement.

9. Default. Upon Developer's default hereunder, City shall serve written notice of such upon Developer. Developer shall have a period of thirty (30) business days from the receipt of such notice to cure such default, or, in the event such default takes in excess of thirty (30) business days to cure, to commence such cure and diligently prosecute such cure to completion. City shall not exercise any remedies unless Developer fails to cure such default within such thirty (30) business day period. In no event shall Developer be in default if Developer timely submits applications to the City for all necessary entitlements, permits, and approvals for development of the Community Park and, in good faith, proceeds with such applications through the standard City entitlement process, but City fails to issue the required approvals for the development of the Community Park as particularly described herein.

10. Remedies. City agrees that its sole remedies for any default by Developer hereunder shall be specific performance or suspension or revocation of any of the Pending Entitlements for the Project (that were duly approved by City) pursuant to Section 9.02.260 (Revocation of approvals or permits) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code based on, but not limited to, a finding that the Project's entitlements were obtained by misrepresentation or fraud; that the conditions of any of the Project's entitlements have not been met or have been exercised contrary to the terms and conditions set forth therein in violation of any statute, ordinance, law or regulation; or that the public health, safety and welfare can be served only by revocation.

11. No Damages Relief Against City. Notwithstanding anything else in this Agreement to the contrary, Developer acknowledges that the City would not have entered into this Agreement had it been exposed to damage claims from Developer for any breach hereof. As such, the parties agree that in no event shall Developer be entitled to recover damages of any kind whatsoever against City for breach of this Agreement.

12. Substitute Park Site. In the event there are any unexpected or unforeseen physical conditions discovered on the Park Site which create a situation that poses a threat to the health and safety of the prospective users of the Community Park at the Park Site, Developer shall propose an alternative park site that is suitable for development of the Community Park, as more particularly described in this Agreement, subject to the approval of City, and which shall be developed as required in this Agreement.

13. Nexus/Reasonable Relationship Challenges.

Developer consents to and waives any rights it may have now or in the future to challenge the legal validity of, the conditions or requirements set forth in this Agreement including, without

limitation, any claim that they constitute an abuse of the police power, violate substantive due process, deny equal protection of the laws, effect a taking of property without payment of just compensation, or impose an unlawful tax.

14. Civil Code Section 1542 Waiver.

Developer hereby waives any and all rights Developer or its successors and assigns may have under Article XIIIC or Article XIIID of the California Constitution and any and all rights Developer of its successors and assigns may have under any other applicable law to contest the fees, exactions and assessments and/or their amounts payable to the City under this Agreement as follows:

In furtherance of the intentions of the parties to this Agreement, Developer with and under advice of counsel, hereby expressly waives any and all right and benefit conferred upon Developer by the provisions of Civil Code Section 1542, which provides as follows:

> "A general release does not extend to claims which a creditor does not know or suspect to exist in his or her favor at the time of executing the release, which if known by him or her must have materially affected his or her settlement with the debtor."

Developer further expressly waives any and all rights and benefits conferred upon Developer by any provision of any other state, federal or local statute, code, ordinance or law similar to Section 1542 of the Civil Code. Developer expressly consents that the waiver of rights contained in the first paragraph shall be given full force and effect, according to the express terms and provisions of the instant waiver, to unknown and unsuspected claims, demands and causes of action, if any, arising out of or relating to the waiver of rights contained in this Agreement.

Initials:
Developer SM

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

15. Notices. All notices and other communications required or permitted to be given hereunder shall be in writing and shall be sent by: (i) certified or registered mail, postage prepaid, return receipt requested, (ii) personal delivery, or (iii) a recognized overnight carrier that provides proof of delivery, and shall be addressed as follows:

If to Developer:

Industrial VI Enterprises, LLC
Attn: Scott Morse
901 Via Piemonte | Suite 175
Ontario, CA 91764

with a copy to:

Attn: Donovan C. Collier, Director
Fennemore
550 E. Hospitality Lane, Suite 350
San Bernardino, CA 92408

If to City:

City of Moreno Valley
Attn: City Manager
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92252

with a copy to:

City of Moreno Valley
Attn: City Attorney
14177 Frederick Street
P.O. Box 88005
Moreno Valley, CA 92252

16. Miscellaneous.

(a) Authority to Execute Agreement. The person or persons executing this Agreement on behalf of Developer and City warrant and represent that they have the authority to execute this Agreement and the authority to bind Developer and City, as applicable, to the performance of their respective obligations hereunder.

(b) Counterparts; Electronic Execution. This Agreement may be executed in multiple counterparts electronically including counterparts transmitted via email, each of which shall be deemed an original, but all of which, together, shall constitute one and the same instrument.

(c) No Obligations to Third Parties. The execution and delivery of this Agreement shall not be deemed to confer any rights upon, nor obligate any of the parties thereto, to any person or entity other than the parties hereto.

(d) Amendment to this Agreement. The terms of this Agreement may not be modified or amended except by an instrument in writing executed by each of the parties hereto.

(e) Waiver. The waiver or failure to enforce any provision of this Agreement shall not operate as a waiver of any future breach of any such provision or any other provision hereof.

(f) Applicable Law. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of California.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

(g) Venue. In the event that suit is brought by either party to this Agreement, the parties agree that venue shall be exclusively vested in the State courts of the County of Riverside, California or where appropriate, in the United States District Court, Southern District of California, Riverside, California.

(h) Severability. If any provision of this Agreement is found to be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each provision of this document shall be valid and enforceable to the extent permitted by law.

(i) Attorneys' Fees. In the event a dispute arises concerning the performance, meaning or interpretation of any provision of this Agreement, the defaulting party or the party not prevailing in such dispute shall pay any and all costs and expenses incurred by the other party in enforcing or establishing its rights hereunder, including, without limitation, court costs, attorneys' fees and expenses. In addition to the foregoing award of attorneys' fees and expenses to the prevailing party, the prevailing party in any lawsuit on this Agreement shall be entitled to its attorneys' fees and expenses incurred in any post judgment proceedings to collect or enforce the judgment. This provision is separate and several and shall survive the merger of this Agreement into any judgment on this Agreement, and shall survive the termination of this Agreement.

(j) Entire Agreement. This Agreement supersedes any prior agreements, negotiations and communications, oral or written.

(k) Successors and Assigns. Developer may assign this Agreement to an affiliate of Developer. This Agreement shall be binding upon and shall inure to the benefit of the successors and assigns of the Parties hereto.

(l) Ambiguities or Uncertainties. The parties hereto have mutually negotiated the terms and conditions of this Agreement and each party received independent legal advice from its attorneys with respect to the advisability of executing this Agreement and the meaning of the provisions contained herein. As such, this Agreement is a product of the joint drafting efforts of both parties and neither party shall be deemed to have solely or independently prepared or framed this Agreement. Therefore, any ambiguities or uncertainties are not to be construed against or in favor of either party.

[Signatures on following page]

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first written above.

"DEVELOPER":

INDUSTRIAL VI ENTERPRISES, LLC
a Delaware limited liability company
By: _____ 5/26/2022
Scott Morse
Executive Vice President

APPROVED AS TO FORM:

By: _____
Donovan Collier
Attorney at Law

"CITY":

CITY OF MORENO VALLEY
a Municipal Corporation

By: _____
Mike Lee
City Manager

APPROVED AS TO FORM:

By: _____
Steven B. Quintanilla
Interim City Attorney

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

CALIFORNIA ALL- PURPOSE CERTIFICATE OF ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California }

County of Orange }

On May 26th 2022 before me, Truong Dat Thanh Pham , Notary Public,
(Here insert name and title of the officer)

personally appeared SCOTT JAMES HORSE,
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

TRUONG DAT THANH PHAM
COMM...2296857
NOTARY PUBLIC-CALIFORNIA
ORANGE COUNTY
My Term Exp. July 13, 2023

Notary Public Signature (Notary Public Seal)

ADDITIONAL OPTIONAL INFORMATION

DESCRIPTION OF THE ATTACHED DOCUMENT

Agreement
(Title or description of attached document)

(Title or description of attached document continued)

Number of Pages ____ Document Date 5-26-2022

CAPACITY CLAIMED BY THE SIGNER

- ☐ Individual (s)
- ☐ Corporate Officer

(Title)

- ☐ Partner(s)
- ☐ Attorney-in-Fact
- ☐ Trustee(s)
- ☐ Other ____

INSTRUCTIONS FOR COMPLETING THIS FORM

This form complies with current California statutes regarding notary wording and, if needed, should be completed and attached to the document. Acknowledgments from other states may be completed for documents being sent to that state so long as the wording does not require the California notary to violate California notary law.

- State and County information must be the State and County where the document signer(s) personally appeared before the notary public for acknowledgment.
- Date of notarization must be the date that the signer(s) personally appeared which must also be the same date the acknowledgment is completed.
- The notary public must print his or her name as it appears within his or her commission followed by a comma and then your title (notary public).
- Print the name(s) of document signer(s) who personally appear at the time of notarization.
- Indicate the correct singular or plural forms by crossing off incorrect forms (i.e. ~~he/she/they,~~ is /~~are~~) or circling the correct forms. Failure to correctly indicate this information may lead to rejection of document recording.
- The notary seal impression must be clear and photographically reproducible. Impression must not cover text or lines. If seal impression smudges, re-seal if a sufficient area permits, otherwise complete a different acknowledgment form.
- Signature of the notary public must match the signature on file with the office of the county clerk.
  - Additional information is not required but could help to ensure this acknowledgment is not misused or attached to a different document.
  - Indicate title or type of attached document, number of pages and date.
  - Indicate the capacity claimed by the signer. If the claimed capacity is a corporate officer, indicate the title (i.e. CEO, CFO, Secretary).
- Securely attach this document to the signed document with a staple.

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the day and year first written above.

"DEVELOPER":

INDUSTRIAL VI ENTERPRISES, LLC
a Delaware limited liability company
By: _____
Scott Morse
Executive Vice President

APPROVED AS TO FORM:
By: _____
Donovan Collier
Attorney at Law

"CITY":

CITY OF MORENO VALLEY
a Municipal Corporation

By: _____
Mike Lee
City Manager

APPROVED AS TO FORM:

By: _____
Steven B. Quintanilla
Interim City Attorney

Attachment: Resolution - Accepting Community Benefits and Approving Park Agreement [Revision 3] (6209 : Moreno Valley Trade Center/Park)

PLANNING COMMISSION

STAFF REPORT

Meeting Date: October 28, 2021

MORENO VALLEY TRADE CENTER, A PROPOSED GENERAL PLAN AMENDMENT, CHANGE OF ZONE, TENTATIVE PARCEL MAP 37836 TO MERGE 11 PARCELS INTO 1 PARCEL, AND PLOT PLAN FOR AN APPROXIMATELY 1,328,853 SQUARE FOOT WAREHOUSE/DISTRIBUTION BUILDING

Case:	PEN19-0191 General Plan Amendment PEN19-0192 Change of Zone PEN19-0234 Tentative Parcel Map 37836 PEN19-0193 Plot Plan
Applicant:	MVTC, LLC, a Delaware limited liability company
Property Owner:	MV Eucalyptus, LLC, MV 2778, LLC, BC MV Land, LLC, Suthep Charoonratana and Vena Charoonratana, and Adam Hall and Michelle Hall
Representative:	David Slawson of Winchester & Associates, Inc.
Location:	South of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street, and west of Redlands Boulevard
Case Planner:	Gabriel Diaz
Council District:	3
Proposal:	The applicant requests approval of the following entitlements for an 80.04 acre site: 1) PEN19-0191 General Plan Amendment from Residential 2 (R2) to Business Park (BP); 2) PEN19-0192 Change of Zone amending the City of Moreno Valley Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" overlay classification; 3) PEN19-0234 Tentative Parcel Map 37836 to merge 11 parcels into 1 parcel; and 4) Plot Plan for

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

an approximately 1,328,853 square foot warehouse/distribution building.

SUMMARY

MVTC, LLC, A Delaware limited liability company ("Applicant") is requesting approval of the following: 1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map (PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

PROJECT DESCRIPTION

General Plan Amendment

The Land Use Designation of the Project Site under the City of Moreno Valley General Plan Land Use Map is Residential 2 (R2). The Applicant is requesting that the General Plan Land Use Designation be changed from Residential 2 (R2) to Business Park (BP).

The primary purpose of the Residential 2 (R2) General Plan Land Use Designation is to provide for suburban lifestyles on residential lots larger than commonly available in suburban subdivisions in the context of a rural atmosphere. The maximum allowable density under the Residential 2 (R2) General Plan Land Use Designation is 2.0 dwelling units per acre. The primary purpose of the Business Park (BP) General Plan Land Use Designation is to provide for manufacturing, research and development, warehousing and distribution, as well as office and support commercial activities. While the purpose of the two land use designations are different, the proposed General Plan Amendment, as requested by the Applicant, will be consistent with the Project Site's adjacent parcels to the northwest, north, northeast, and east. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

Change of Zone

The Project Site is currently zoned Residential Agriculture 2 (RA2) with a "Primary Animal Keeping Overlay (PAKO)" classification. The Applicant is requesting that the Project Site be rezone to Light Industrial District (LI), and to remove the Project Site's "Primary Animal Keeping Overlay (PAKO)" classification.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

The primary purpose of the Residential Agriculture 2 (RA2) zone is to provide for suburban lifestyles on residential lots larger than are commonly available in suburban subdivisions and to provide for and protect the rural and agricultural atmosphere within the zone, including the keeping of animals, that have historically characterized these areas. The Residential Agriculture 2 (RA2) zone is intended as an area for development of large lot, single-family residential development at a maximum allowable density of two dwelling units (DU) per net acre.

The primary purpose of the Light Industrial District (LI) zone is to provide for light manufacturing, light industrial, research and development, warehousing, distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. The Light Industrial District (LI) Zoning District is intended as an area for light industrial uses that can meet high performance standards. While the purpose of the two zoning designations are different the proposed Change of Zone will be consistent with the Project Site's adjacent parcels to the northwest, north, and northeast.

Tentative Parcel Map

The Applicant is requesting the approval of Tentative Parcel Map 37836 to merge the existing 11 parcels into a single parcel. Staff has reviewed the proposed Tentative Parcel Map and confirmed that the proposed lot complies with the City's development standards.

Plot Plan

The Applicant is also requesting the approval of a Plot Plan to construct a 1,328,853 square foot Warehouse/Distribution building on the Project Site with associated parking, landscape improvements and off-site public improvements. An alternative land use, an E-Commerce facility, was also discussed in the Environmental Impact Report prepared for the project site. Should the applicant decide to pursue that option either an amended Plot Plan or a new Plot Plan would be required for review and approval.

Site/ Surrounding Area

The Project Site currently consists of 11 parcels, comprising Assessor Parcel Nos. 488-340-002 through 012. The Project Site consist of approximately 80.04 gross acres and is located south of Eucalyptus Avenue, north of Encelia Avenue, east of Quincy Street and west of Redlands Boulevard.

The area surrounding the Project Site includes the following: 1) to the south, existing single-family homes across Encelia Avenue on land zoned Residential Agriculture (RA2); 2) to the west, vacant land across the Quincy Channel that is zoned Residential Agriculture 2 (RA2) and Residential 5 (R5); 3) to the north, the ALDI Distribution Center warehouse and vacant land across Eucalyptus Avenue zoned Light Industrial (LI) and Community Commercial (CC); and 4) to the east, vacant land zoned World Logistics Center Specific Plan (WLC SP LD).

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Access/Parking

Access to the Project Site is proposed to be from a total of six new driveways. Eucalyptus Avenue will have two driveways - the western driveway will provide full access for truck and passenger vehicles and the eastern driveway will provide only a right-out for both truck and passenger vehicles. Redlands Boulevard will have two driveways - the northern driveway will only be right-in and right-out for passenger vehicles and the southern driveway will be right-in for trucks and right-in and right-out for passenger vehicles only. Encelia Avenue will have two driveways providing full access for just passenger vehicles.

Staff has determined that the Project Site's driveways and interior drive aisles are adequate for the general maneuvering of trucks, including providing sufficient room for turning around delivery trucks and trash pick-up. In addition, the Project Site has been deemed acceptable for fire truck access by the Fire Prevention Bureau.

As proposed, the Project Site's proposed parking for both automobiles and trucks exceed the Municipal Code requirements. Overall, a total of 605 automobile parking spaces will be provided for the proposed Warehouse/Distribution building, where 428 automobile parking spaces are required. The proposed parking includes spaces for standard automobiles which will be ADA accessible and include EV (Electric Vehicle) spaces. The proposed parking will also include 238 truck parking spaces in the truck court areas, where 225 truck parking spaces are required. Bicycle parking will also be provided as required by the City's standards for bicycle parking.

Design/Landscaping

The proposed Warehouse/Distribution building will be constructed at a maximum height of 48 feet. It will be rectangular in shape with a contemporary modern architectural style that includes a flat roof design and vertical wall elements. The corners of the building will be occupied by offices, which will provide focal points to the building in that they will include concrete tilt-up sections, glass, and awnings, bringing an office aesthetic to the building. The color finishes include canvas tan, putty, and grays. The windows will have a blue glazing, with flat awnings above the windows to break up the massing of the building. The architectural design of the Warehouse/Distribution building strives to achieve an attractive and appealing structure as it will be visible from the following three streets: Eucalyptus Avenue, Encelia Avenue, and Redlands Boulevard.

The project has been designed with one pad elevation for the building. This produces a higher pad elevation from Encelia Avenue and a lower pad elevation from Eucalyptus Avenue The building pad elevation between 14.24 feet and 25.34 feet higher than Encelia Avenue. From Eucalyptus Avenue the building pad elevation is between 1.96 feet and 19.76 feet lower than the street.

Extensive landscaping will be provided along the building street frontages in addition to the required front set back and right of way landscaping that will include plant, ground cover, street trees and on-site trees. The project also meets the municipal code requirement of having a 250 foot setback between the residential district to the south of

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Encelia Avenue and the project truck court. Additional landscaping has been provided in this setback area.

MAJOR DEVELOPMENT REVIEW PROCESS

Since the Applicant is requesting a General Plan Amendment, Change of Zone, Tentative Parcel Map, and Plot Plan, the Applicant's land use entitlement applications were concurrently processed and reviewed, as required under the "Major Development Review Process" provisions as set forth in Section 9.02.030 (Development Review Process) of Chapter 9.02 (Permits and Approval) of Title 9 (Planning & Zoning) of the Moreno Valley Municipal Code. Pursuant to Section 9.02.030, upon determining the applications to be complete, the proposed Project was forwarded to the Community Development Director and the Project Review Staff Committee for their respective reviews. The proposed Project was also forwarded to certain public agencies (whose operations or areas of responsibility could be affected by the proposed Project) for their review and comment. These public agencies included, but not limited to, the Santa Ana Regional Water Quality Control Board (RWQCB), the California Department of Fish and Wildlife (CDFW), and The Riverside County Department of Environmental Health.

Following review by the Community Development Director, the Project Review Staff Committee and the various public agencies, the Project's entitlement package was deemed ready for Planning Commission review and consideration.

CEQA ENVIRONMENTAL REVIEW

The City, serving as Lead Agency under CEQA and the CEQA Guidelines, provided the requisite notices related to the Project's Notice of Preparation, Notice of Completion and Notice of Public Review of the Draft EIR, as required under the California Environmental Quality Act ("CEQA") (Public Res. Code, § 21000 *et seq.*), the State CEQA Guidelines (14 CCR § 15000 *et seq.,* and the City of Moreno Valley's "Rules and Procedures for the Implementation of CEQA," as discussed below.

Notice of Preparation

There is no notice requirement for an Initial Study until the City determines that it will prepare either a Negative Declaration or an Environmental Impact Report. If the City concludes that an Environmental Impact Report is required, it must immediately send out a Notice of Preparation. (See CEQA Guidelines §15082.) The City must prepare and distribute a "Notice of Preparation" to various agencies and persons requesting such notice. (See CEQA sections 21080.4(a) and 21092.2; see also CEQA Guidelines section 15082.) In light of the foregoing, the Notice of Preparation was sent to the following: the Santa Ana Regional Water Quality Control Board (RWQCB), the California Department of Fish and Wildlife (CDFW), and The Riverside County Department of Environmental Health.

Notice of Completion

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Once the Draft EIR has been completed, the City must file a "Notice of Completion" with the State of California Office of Planning and Research ("OPR"). (See CEQA section 21161 and CEQA Guidelines sections 15085(a) and 15372.) The Notice of Completion may be filed as a printed hard copy, in electronic form on a CD, or by e-mail. In light of the foregoing, the Notice of Completion was sent to OPR, as evidenced in the attached.

Notice of Public Review

After the Draft Environmental Impact Report has been completed, the Lead Agency must provide public notice that the Draft Environmental Impact Report is available for comment and review pursuant to CEQA section 21092 and CEQA Guidelines section 15087(a).

Notice of the period for public review of a Draft Environmental Impact Report must be provided in each of three ways: 1) provide notice to parties which have previously made a written request for such notice per CEQA section 21092(b)(3) and CEQA Guidelines section 5087(a); 2) file and post the notice with the County Clerk as required by CEQA section 21092.3 and CEQA Guidelines section 15087(d); and 3) provide notice to the general public by one or more of three procedures as set forth in CEQA section 21092(b)(3) and CEQA Guidelines section 15087(a), which include publication at least once in a newspaper of general circulation in the area affected by the project, on- and off-site posting in the area in which the project will be located; or direct mailing to occupants of contiguous property and to owners of contiguous property as shown on the latest equalized assessment roll.

In light of the foregoing, Notice of Public Review was provided to, but not limited to the following: Richard Drury, Komalpreet Toor, Stacey Obornet, George Hague, Friends of the Northern San Jacinto Valley, and Residents for a Livable Moreno Valley.

Upon completion of the Draft Environmental Impact Report, staff circulated the document for a 45-day public review period, starting on May 24, 2021, and ending on July 8, 2021.

Notice of Determination

After the Lead Agency decides to approve or carry out a project for which an Environmental Impact Report has been prepared, the City must file a Notice of Determination. (See CEQA sections 21108(a) and 21152; see also CEQA Guidelines sections 15094 and 15373.) Because the City is a local agency, within five working days after the approval becomes final, the Notice of Determination must be filed with the County Clerk. Since the proposed Project has not received final approval, there is currently no Notice of Determination.

ENVIRONMENTAL DOCUMENTS

The Draft EIR and associated environmental documents for the proposed Project were prepared by a third-party environmental consultant, T&B Planning, Inc. In practice, Lead Agencies commonly either retain a consultant to prepare the EIR or accept an EIR

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

prepared by the applicant or its consultant rather than have City staff prepare the EIR. CEQA authorizes a Lead Agency to enter into a contract for preparation of an EIR and the CEQA Guidelines permit agencies to accept EIRs prepared by project applicants or their consultants. (See CEQA section 21082.1(a)) and CEQA Guideline section 15084(d)(3).)

However, under CEQA, whatever method of preparation the Lead Agency uses, it must independently review and analyze the Draft EIR, and circulate a Draft EIR that reflects its independent judgment. (See CEQA section 21082.1 (c)(1)-(2) and CEQA Guidelines section 15084 (e).) In other words, the Lead Agency cannot avoid its legal obligation to independently review and evaluate the EIR by contracting with a consultant to prepare the EIR.

In light of the foregoing, staff independently analyzed the Draft EIR and all related documents, including but not limited to Preliminary WQMP, Hydrology Report, Noise Impact Analysis, and Traffic Impact Analysis. Relevant environmental documents were reviewed by various Departments and Divisions of the City, including without limitation, the Planning, Public Works, Engineering, Fire and the City Attorney's Office.

Draft EIR Public Comments & Responses to Comments

Fifteen public written comment letters were received during the 45-day public review period. Some of the written comments expressed concern regarding potential impacts to air quality, noise, traffic and aesthetics, while others acknowledged the Project without providing specific comments addressing potential environmental impacts of the Project.

Per CEQA and the CEQA Guidelines, the Lead Agency must evaluate comments on the Draft EIR that were received during the public review period and must include written responses to comments in the Final EIR. (See CEQA section 21091(d) and CEQA Guidelines section 15088(a).) However, the Lead Agency is only required to provide responses regarding the disposition of any "significant environmental issues" raised by commentators. (See CEQA section 21091(d)(2)(B) and CEQA Guidelines sections 15088(c), 15132(d) and 15204(a).) In other words, the Lead Agency is not required to respond to those comments that do not address environmental issues. The Lead Agency's responses to comments may be incorporated as revisions to the Draft EIR or included in a separate section in the Final EIR. (See CEQA Guidelines section 15088(d).) In either case, they must appear in the final EIR, which must include the draft EIR, with any revisions or comments on the draft EIR either verbatim or in summary, and the agency's responses to comments on significant environmental issues. (See CEQA Guidelines section 15132.)

Lead Agencies must respond to comments received during the public comment period. (See CEQA Guidelines section 15088(a).) CEQA, however, does not require that the Lead Agency respond to late comments. (See CEQA section 21091(d)(1); see also *Residents Against Specific Plan 380 v County of Riverside* (2017) 9 CA5th 941 and *Gilroy Citizens for Responsible Planning v City of Gilroy* (2006) 140 CA4th 911.). Further, the Lead Agency need not hold open the review process to prepare responses to late comments. (See CEQA section 15207; see also *City of Poway v City of San*

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Diego (1984) 155 CA3d 1037.) Given that there is no legal duty to respond to late comments, the claimed inadequacy of responses to late comments cannot be a basis for challenging the legal adequacy of an EIR. (See *Gray v County of Madera* (2008) 167 CA4th 1099.)

In light of the foregoing, the environmental consultant, Planning staff, Public Works and Engineering staff and the City Attorney's Office prepared responses to the written comments the City received within the 45-day public review period and those written responses are included in the Final EIR. However, any written comments received after the close of the 45-day public review period are not included in Final EIR, nor are any responses thereto (if any) been included in the Final EIR.

Point-by-point responses to the individual comments, which addressed potential or alleged environmental impacts of the proposed Project were prepared with some responses to certain comments consisting of cross-references to responses to similar or related issues. (See CEQA section 21082.1.)

The purpose of staff's participation in preparing said response is to ensure that the City, as Lead Agency, independently review and analyze them so that the responses to comments and the Final EIR as a whole reflects the City's independent judgment. (See CEQA section 21082.1(c).)

Mitigation Measures and Mitigation Monitoring & Reporting Program

Mitigation measures are proposed to reduce the level of potential environmental impacts of the proposed Project. In the responses to comments, numerous mitigation measures are referenced when such references are related to the potential impact described in the respective comment. Furthermore, the mitigation measures are incorporated in the proposed Mitigation Reporting and Monitoring Program, that is included as part of the Final EIR, although the Program does not have to be included in the EIR. (See *Christward Ministry v County of San Diego* (1993) 13 CA4th 31.) The purpose of the Mitigation Reporting and Monitoring Program is to ensure that Project's mitigation measures shall be enforceable through permit conditions, agreements, or other mechanisms. (See CEQA Guidelines section 5126.4(a)(2).) Moreover, because mitigation measures will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Project's mitigation measures. (See CEQA Guidelines section 15126.4.)

Conditions of Approval Incorporated in Entitlements

Outside the context of CEQA, the City has the legal authority to impose various conditions of approval related to the requested entitlements. For instance, pursuant to Chapter 9.14 (Land Divisions) of Title 9 (Planning & Zoning) of the Municipal Code, there are numerous standard conditions that apply to the proposed Tentative Parcel Map, which include but are not limited to: 1) The site shall be developed in accordance with the approved tentative parcel map on file in the Community Development Department -Planning Division, the Municipal Code regulations, General Plan, and the conditions contained herein. (MC 9.14.020); 2) This tentative map shall expire three

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

years after the approval date of this tentative map unless extended as provided by the City of Moreno Valley Municipal Code; otherwise it shall become null and void and of no effect whatsoever in the event the applicant or any successor in interest fails to properly file a final map before the date of expiration. (MC 9.02.230, 9.14.050, 080); 3) Prior to final map recordation any required trail easements shall be provided.

In addition, pursuant to Section 9.02.070 (Plot Plan) of Chapter 9.02 (Permits and Approvals) of Title 9 (Planning & Zoning) of the Municipal Code, when approving a plot plan, the City shall impose conditions of approval for the project regarding on-site improvements, off-site improvements, the manner in which the site is used and any other conditions as may be deemed necessary to protect the public health, safety and welfare and ensure that the project will be developed in accordance with the purpose and intent of Title 9 (Panning & Zoning). Some of these conditions of approval, include but are not limited to: 1) Prior to improvement plan approval, pavement core samples of existing pavement shall be taken and findings submitted to the City for review and consideration of pavement improvements. The City will determine the adequacy of the existing pavement structural section. If the existing pavement structural section is found to be adequate, the developer may still be required to perform a 2 inch grind and overlay or slurry seal, depending on the severity of existing pavement cracking, as required by the City Engineer. If the existing pavement section is found to be inadequate, the Developer shall replace the pavement to meet or exceed the City's pavement structural section standard; 2) Prior to building final, all required and proposed fences and walls shall be constructed according to the approved plans on file in the Planning Division. (MC 9.080.070); and 3) Prior to building final, all required landscaping and irrigation shall be installed per plan, certified by the Landscape Architect and inspected by the Planning Division. (MC 9.03.040, MC 9.17).

Moreover, like with the CEQA-established mitigation measures, since these conditions or approval will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Project’s conditions of approval.

Community Benefits Offered by Applicant

In addition to the CEQA-related Mitigation Measures and the Conditions of Approval related to the requested entitlements, the Applicant has offered numerous “Community Benefits,” as attached to hereto, that fall beyond the City’s legal authority to approve as CEQA-related Mitigation Measures or as the Conditions of Approval related to the requested entitlements. In other words, since the Community Benefits being offered by the Applicant lack sufficient nexus to the potential impacts of the Project, the City lacks the legal authority to unilaterally imposed the Community Benefits as bona fide Mitigation Measures or Conditions of Approval. Notwithstanding above, the Applicant has agreed that the Community Benefits be memorialized as enforceable conditions of approval. As such, since these conditions or approval will be incorporated into the Project's approval, the City will be able to use code and permit enforcement procedures to ensure implementation of each of the Community Benefits offered by the Applicant.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

As set forth in the attached list of Community Benefits, the Applicant has agreed to provide up to $204,000 to fund and administer an electric vehicle grant program, that will include funding for Heavy Duty Electric Trucks, Medium Duty Electric Trucks, Local Delivery Electric Vehicles and Electric Passenger Vehicles. The Developer shall be responsible for establishing, funding and administering each of the grant programs and provide a hyperlink to each grant program on the City's official website for interested parties to access information about the programs.

The Applicant has also offered to provide $113,000 to fund a Solar Advocacy Fund, Residential Air Filtration Reimbursement Program, Residential Noise Insulation Reimbursement Program and Residential Exterior Pressure Washing Reimbursement Program, in addition to installing additional onsite EV charging stations and at least one APU plug-in for every 35 dock doors at multiple locations within the Project Site where trucks are proposed to park. Furthermore, only electrical appliances shall be used in building office areas, the use of portable or stationary diesel powered generators shall be prohibited unless necessary due to emergency situations or constrained supply and all construction equipment shall meet or be cleaner than Tier 4 standards, except if the general contractor overseeing the Project's construction certifies that it is not feasible to use exclusively Tier 4 equipment due to limited availability. In all events, at least 80% of all construction equipment shall meet or be cleaner than Tier 4 standards throughout the construction phase of the Project. Numerous other Community Benefits are described in the list of Community Benefits attached to this Staff Report.

PUBLIC NOTICE RELATED TO THE PROJECT'S ENTITLEMENTS

Since the proposed Project involves applications for 1) a General Plan Amendment; 2) a Zone Change; 3) a Tentative Parcel Map; and 4) a Plot Plan, each proposed land use entitlement must be reviewed and considered by the Planning Commission in the context of a Public Hearing, as set forth in Sections 9.02.040 (General Plan Amendments), 9.02.050 (Amendments to Zoning Districts or Other Provisions of Title 9), 9.02.070 (Plot Plan), and 9.14.050 (Processing of Tentative Maps) of Title 9 (Planning & Zoning) of the Moreno Valley Municipal Code. Moreover, in addition to providing the notices required under CEQA and/or the CEQA Guidelines, the aforementioned Title 9 (Planning & Zoning) sections require that notice of the proposed Project's Public Hearing before the Planning Commission be provided in accordance with Section 9.02.200 (Public Hearing and Notification Procedures) of Title 9 (Planning & Zoning).

Section 9.02.200 (Public Hearing and Notification Procedures) provides in relevant part that notice of public hearings shall be given by: 1) publication in a newspaper of general circulation within the City at least ten (10) calendar days prior to the public hearing (*see attached Press Enterprise Newspaper Public Notice*); 2) mailing, at least ten (10) calendar days prior to the public hearing, to all owners of property within a radius of six hundred (600) feet from the exterior boundaries of the property involved in the application.

REVIEW AGENCY COMMENTS

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Staff has coordinated with outside trustee and responsible agencies where applicable, as is the standard review process with these types of development applications.

Statement of Overriding Considerations

Although the Mitigation Measures are recommended to reduce the level of the potential environmental impacts of the proposed Project, after the application of all feasible mitigation measures, staff has determined that the Project would result in a few significant and unavoidable environmental effects. The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings.

Notwithstanding the above, when the Lead Agency approves a project with significant environmental effects that will not be avoided or substantially lessened, it must adopt a statement disclosing that because of the project's overriding benefits, it is approving the project despite its environmental harm. (See CEQA Guidelines section 15043.) The Lead Agency must set forth the reasons for its action, based on the final EIR or other information in the record. (See CEQA section 21081(b) and CEQA Guidelines section 15093(a).) This requirement reflects the statutory policy that public agencies must weigh a proposed project's benefits against its unavoidable environmental risks and may find the adverse impacts "acceptable" if the benefits outweigh those effects. (See CEQA section 21081(b) and CEQA Guidelines section 15093(a); see also *Cherry Valley Pass Acres & Neighbors v City of Beaumont* (2010) 190 CA4th 316, *Sierra Club v Contra Costa County* (1992) 10 CA4th 1212 and *San Francisco Ecology Ctr. v City & County of San Francisco* (1975) 48 CA3d 584. In other words, a statement of overriding considerations expresses the "larger, more general reasons for approving the project, such as the need to create new jobs, provide housing, generate taxes, and the like." (See *Concerned Citizens of S. Cent. L.A. v Los Angeles Unified Sch. Dist.* (1994) 24 CA4th 826.)

In light of the foregoing, staff recommends that based on balancing the benefits of the Project against the unavoidable effects which remain, the Planning Commission should recommend that the City Council find that any one of the following Project benefits standing alone would be sufficient to sustain the Statement of Overriding Considerations.

1. Approval of the Project will create maximum employment-generating opportunities for citizens of Moreno Valley and surrounding communities. Development and construction of the site will create both temporary on-site jobs as well as indirectly support local and regional jobs. Additionally, construction spending will create a one-time stimulus to the local and regional economics.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

2. Approval of the Project will create a Class A speculative light industrial building in Moreno Valley that is designed to meet contemporary industry standards and be economically competitive with similar industrial buildings in the local area and region.
3. Approval of the Project will contribute towards maximizing employment opportunities within the City to improve the jobs-housing balance and to reduce systemic unemployment within the City. The Project will attract businesses that can expedite the delivery of essential goods to consumers and businesses in Moreno Valley and beyond the City boundary.
4. Approval of the Project will create approximately 1,000 new on-site jobs under the warehouse distribution/logistics option and 2,000 new on-site jobs under the e-commerce/fulfillment option.
5. Approval of the Project will result in the development and operation of a state-of-the-art logistics center that takes advantage of existing and planned infrastructure, is technologically feasible to construct, and in the general vicinity of similar industrial logistics and distribution center uses.
6. Approval of the Project will maximize efficient goods movement throughout the region by locating a large format logistics center in close proximity to the Ports of Los Angeles and Long Beach thereby enabling trucks servicing the site to achieve a minimum of two roundtrips per day.
7. Approval of the Project will maximize the use of a large industrial site in the region that is in close proximity to the Ports of Los Angeles and Long Beach, to realize substantial unmet demand in the region, allowing the region to compete on a domestic and international scale through the efficient and cost-effective movement of goods.
8. Approval of the Project will facilitate the development of long-standing underutilized and vacant land.

STAFF RECOMMENDATION

Staff recommends that the Planning Commission take the following actions:

A. That the Planning Commission **ADOPT** Resolution No. 2021-40, attached hereto, **RECOMMENDING** that the City Council:

   1. **APPROVE** that the Final Environmental Impact Report PEN20-0102 for the Moreno Valley Trade Center project including a General Plan Amendment PEN19-0191, a Change of Zone PEN19-0192, a Tentative Parcel Map PEN19-0234, and a Plot Plan PEN19-0193 on file with the Community Development Department, incorporated herein by this reference, has been completed in compliance with the California Environmental Quality Act, that the Planning Commission reviewed and considered the information in the Final EIR and that the Final EIR reflects the City's independent judgement and analysis; and

   2. **ADOPT** the Mitigation Monitoring and Reporting Program for the Final EIR for the proposed the Moreno Valley Trade Center project, attached as Exhibit A.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

3. **ADOPT** the Facts, Findings and Statement of Overriding Considerations regarding the Final EIR for the Moreno Valley Trade Center project, attached hereto as Exhibit B; and

B. That the Planning Commission **ADOPT** Resolution No. 2021-41 attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** PEN19-0191 General Plan Amendment based on the Recitals, Evidence contained in the Administrative Record and Findings set forth in Resolution No. 2021-41 and any necessary and corresponding amendment to the City's Zoning Atlas to reflect the proposed changes in the zoning classification and/or redistricting associated with the General Plan Amendment.

C. That the Planning Commission **ADOPT** Resolution No. 2021-42, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** PEN19-0192 Change of Zone based on the Recitals, Evidence contained in the Administrative Record and Findings as set forth in Resolution No. 2021-42 and any necessary and corresponding amendment to the City's Zoning Atlas to reflect the proposed change in the zoning classification and/or redistricting associated with the Change of Zone.

D. That the Planning Commission **ADOPT** Resolution No. 2021-43, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Tentative Parcel Map PEN19-0234 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in Resolution No. 2021-43.

E. That the Planning Commission **ADOPT** Resolution No. 2021-44, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Plot Plan PEN19-0193 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in Resolution No. 2021-44.

F. That the Planning Commission **ADOPT** Resolution No. 2021-45, attached hereto, **RECOMMENDING** that the City Council:

1. **APPROVE** Resolution No. 2021-45 making 145 units available through the City's Density Bonus Program for SB330 based on the Recitals, Evidence contained in the Administrative Records and Findings as set forth in the Resolution.

G. **RECOMMEND** the City Council accept the Community Benefits offered by the Applicant.

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

Prepared by:
Gabriel Diaz
Associate Planner

Approved by:
Sean P Kelleher
Planning Division Manager

ATTACHMENTS

1. Resolution 2021-40 Final Environmental Impact Report EIR
2. Exhibit A to Resolution No. 2021-40 Final Environmental Impact Report
3. Appendix A - Initial Study, NOP, and Written Comments on the NOP
4. Appendix B1 - Air Quality Impact Analysis - Warehouse
5. Appendix B2 - Air Quality Impact Analysis - E-Commerce
6. Appendix B3 - Mobile Source Health Risk Assessment - Warehouse
7. Appendix B4 - Mobile Source Health Risk Assessment - E-Commerce
8. Appendix B5 - Supplemental Air Quality Analysis Memo - Warehouse
9. Appendix B6 - Supplemental Air Quality Analysis Memo - E-Commerce
10. Appendix C1 - Biological Technical Report
11. Appendix C2 - Jurisdictional Delineation
12. Appendix C3 - Determination Biologically Equivalent or Superior Preservation
13. Appendix D - Cultural Resources
14. Appendix E1 - Energy Analysis - Warehouse
15. Appendix E2 - Energy Analysis - E-Commerce
16. Appendix F - Geotechnical Report
17. Appendix G - Paleontological Report
18. Appendix H1 - Greenhouse Gas Emissions Report - Warehouse
19. Appendix H2 - Greenhouse Gas Emissions Report - E-Commerce
20. Appendix I - Phase I Environmental Site Assessment
21. Appendix J1 - Hydrology Report - Warehouse
22. Appendix J2 - Preliminary WQMP - Warehouse
23. Appendix J3 - Hydrology Report - E-Commerce
24. Appendix J4 - Preliminary WQMP - E-Commerce
25. Appendix J5 - Supplemental Hydrology Memorandum
26. Appendix K1 - Noise Report - Warehouse
27. Appendix K2 - Noise Report - E-Commerce
28. Appendix L1 - Traffic Impact Analysis - Warehouse
29. Appendix L2 - Traffic Impact Analysis - E-Commerce
30. Appendix L3 - Trip Generation Comparison - Warehouse
31. Appendix L4 - Trip Generation Comparison - E-Commerce
32. Appendix M - Water Supply Assessment
33. Exhibit B - Mitigation Monitoring and Reporting Program
34. Exhibit C - Statement of Overriding Considerations

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

35. Resolution No. 2021-41 General Plan Amendment
36. Resolution No. 2021-42 Change of Zone
37. Resolution No. 2021-43 Parcel Map
38. Resolution No. 2021-44 Plot Plan
39. Resolution No. 2021-45 No Net Loss
40. Site Plan and Elevations Plans
41. Colored Elevations
42. Preliminary Grading Plan
43. Tentative Parcel Map 37836
44. Preliminary Landscape Plan
45. 600 Foot Public Hearing Notice
46. 600 foot Radius Map
47. Project Public Comments
48. MVTC Community Benefits Letter

Attachment: Planning Commission October 28, 2022 Staff Report Without Attachments (All attachments may be obtained at

RESOLUTION NUMBER 2021-41

A RESOLUTION OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DENYING GENERAL PLAN AMENDMENT PEN19-0191 TO AMEND THE GENERAL PLAN LAND USE MAP, CHANGING THE LAND USE DESIGNATION FROM RESIDENTIAL (R2) TO BUSINESS PARK/LIGHT INDUSTRIAL (BP) FOR THE PROPERTY LOCATED SOUTH OF EUCALYPTUS AVENUE, WEST OF REDLANDS BOULEVARD, NORTH OF ENCELIA AVENUE, AND EAST OF QUINCY CHANNEL (APN'S 488-340-002 THROUGH 488-340-012) AND THE NECESSARY AND CORRESPONDING AMENDMENTS TO THE CITY'S ZONING ATLAS

WHEREAS, the City of Moreno Valley ("City") is a general law city and a municipal corporation of the State of California, and has the authority to approve amendments to the City's General Plan and the City's Zoning Atlas and;

WHEREAS, MVTC, LLC a Delaware limited liability company (the "Applicant") is proposing the development of a 1,328,853 square-foot, modern light industrial building to be used as a warehouse distribution/logistics center, or, in the alternative, as an ecommerce facility, commonly known as the Moreno Valley Trade Center (the "Project"), which includes associated site improvements, such as but not limited to, drive aisles, landscaping, utility infrastructure, water quality basins, exterior lighting, walls/fencing, and signage, as more fully described in the Draft Environmental Impact Report (DEIR), a copy of which is incorporated herein by this reference as though set forth in full; and

WHEREAS, the proposal is to construct the Project on land situated on Eucalyptus Avenue, west of Redlands Boulevard, north of Encelia Avenue, and east of Quincy Channel (APN'S 488-340-002 through 488-340-012) ("Project Site"); and

WHEREAS, The Applicant has filed an application for the approval of General Plan Amendment PEN19-0191 ("Application") to amend the Moreno Valley General Plan to change the land use designation of the Project Site from Residential (R2) to Business Park/Light Industrial (BP), which shall also require any necessary and corresponding amendments to the City's Zoning Atlas to reflect that zoning classification and/or redistricting of the Project Site shall retain consistency between the Zoning Atlas and the General Plan land use designations; and

WHEREAS, pursuant to the provisions of Section 9.02.200 (Public Hearing and Notification Procedures) of the Moreno Valley Municipal Code and Government Code section 65905, a public hearing was scheduled for October 28, 2021, and notice thereof was duly published and posted, and mailed to all property owners of record within 600 feet of the Site; and

WHEREAS, on October 28, 2021, the public hearing to consider the Application was duly conducted by the Planning Commission at which time all interested persons were provided with an opportunity to testify and to present evidence; and

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (6209 : Moreno Valley Trade Center/Park)

WHEREAS, on October 28, 2021, in accordance with the provisions of the California Environmental Quality Act (CEQA) and CEQA Guidelines, the Planning Commission denied the Project.

NOW, THEREFORE, THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY, CALIFORNIA, DOES HEREBY RESOLVE AS FOLLOWS:

Section 1. Recitals and Exhibits

That the foregoing Recitals and attached exhibits are true and correct and are hereby incorporated by this reference.

Section 2. Notice Pursuant to Government Code Section 66020

That pursuant to Government Code section 66020(d)(1), notice is hereby given that the proposed Project is subject to certain fees, dedications, reservations and other exactions as provided herein.

Section 3. Evidence

That the Planning Commission has considered all of the evidence submitted into the Administrative Record related to the Project on file with the Community Development Department, including, but not limited to, the following:

(a) Moreno Valley General Plan and all other relevant provisions contained therein;

(b) City's Zoning Atlas and Title 9 (Planning and Zoning) of the Moreno Valley Municipal Code and all other relevant provisions referenced therein;

(c) Application for General Plan Amendment PEN19-0191 to amend the Moreno Valley General Plan to change the land use designation of the Project Site from Residential (R2) to Business Park/Light Industrial (BP);

(d) Draft EIR and all related notices, studies, reports, public comments and responses thereto;

(e) Proposed Mitigation Monitoring and Reporting Program (MMRP) and the findings and determinations contained therein;

(f) Proposed Statement of Overriding Considerations and the findings and determinations contained therein;

(g) Planning Commission Staff Report and all exhibits, attachments, documents, records and references related thereto and the findings and determinations contained therein;

(h) Presentation and comments submitted at the Planning Commission Public Hearing by City staff and consultants;

(i) Testimony and/or comments submitted at the Planning Commission Public Hearing by the Applicant and its representatives; and

(j) Testimony and/or comments submitted at the Planning Commission Public Hearing by all persons that was provided in written format or correspondence, at, or prior to, the Planning Commission Public Hearing.

Section 4. Findings

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (6209 : Moreno Valley Trade Center/Park)

That based on the foregoing Recitals and the Evidence contained in the Administrative Record as set forth above, the Planning Commission hereby recommends the City Council finds as follows:

(a) The requested GPA is inconsistent with the existing goals, objectives, policies and programs of the current general plan; and

(b) The proposed amendment will adversely affect the public health, safety or general welfare in that after the application of all feasible mitigation measures, the Project would result in a few significant and unavoidable environmental effects, as identified in the Final EIR, which includes 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation.

Section 5. **Severability**

That the Planning Commission declares that, should any provision, section, paragraph, sentence or word of this Resolution be rendered or declared invalid by any final court action in a court of competent jurisdiction or by reason of any preemptive legislation, the remaining provisions, sections, paragraphs, sentences or words of this Resolution as hereby adopted shall remain in full force and effect.

Section 6. **Effective Date**

That this Resolution shall take effect immediately upon the date of adoption.

Section 7. **Certification**

That the Secretary of the Planning Commission shall certify to the passage of this Resolution.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (6209 : Moreno Valley Trade Center/Park)

PASSED AND ADOPTED THIS 28th day of October, 2021

CITY OF MORENO VALLEY
PLANNING COMMISSION

_____
Patricia Korzec, Chairperson

ATTEST:

_____
Sean P. Kelleher,
Planning Official

APPROVED AS TO FORM:

_____
Steven B. Quintanilla,
Interim City Attorney

Attachment: Adopted Planning Commission Resolution No. 2021-41 General Plan Amendment (6209 : Moreno Valley Trade Center/Park)

OFFICIAL MINUTES OF THE PLANNING COMMISSION OF THE CITY OF MORENO VALLEY

REGULAR MEETING – 7:00 PM
October 28, 2021

CALL TO ORDER

This regular meeting of the Planning Commission of the City of Moreno Valley was called to order at 7:03 p.m., by Chairperson Korzec in the Council Chambers located at 14177 Frederick Street, Moreno Valley, California.

ROLL CALL

Planning Commission:	Patricia Korzec	Chairperson	Present
	Alvin DeJohnette	Vice Chairperson	Present
	Jeffrey Sims	Commissioner	Present
	Rafael Brugueras	Commissioner	Present
	Omar Cobian	Commissioner	Present

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Commissioner Brugueras.

APPROVAL OF AGENDA

Motion to approve the Agenda was made by Commissioner Brugueras and seconded Commissioner Sims.

Vote: 5-0
Ayes: Commissioner Brugueras, Commissioner Sims, Commissioner Cobian, Vice Chairperson DeJohnette, and Chairperson Korzec
Action: **Approved**

PUBLIC COMMENTS PROCEDURE

PUBLIC COMMENTS

No Public Comments.

CONSENT CALENDAR

1. Planning Commission - Regular Meeting - Oct 14, 2021 7:00 PM
   Motion to approve the Agenda was made by Commissioner Cobian and seconded Commissioner Brugueras.

Vote: 5-0
Ayes: Commissioner Cobian, Commissioner Brugueras, Commissioner Sims, Vice Chairperson DeJohnette, and Chairperson Korzec

* ALL PLANNING COMMISSION MEETINGS ARE VIDEO/AUDIO RECORDED. THIS RECORD IS AVAILABLE FOR REVIEW 1 BUSINESS DAY AFTER EACH MEETING AND CAN BE ACCESSED VIA THE FOLLOWING LINK http://morenovalleyca.iqm2.com/Citizens/Calendar.aspx

Attachment: Planning Commission Minutes of October 28, 2021 (6209 : Moreno Valley Trade Center/Park)

Action: **Approved**

NON-PUBLIC HEARING ITEMS

No items for discussion.

PUBLIC HEARING ITEMS

1. MORENO VALLEY TRADE CENTER, A PROPOSED GENERAL PLAN AMENDMENT, CHANGE OF ZONE, TENTATIVE PARCEL MAP 37836 TO MERGE 11 PARCELS INTO 1 PARCEL, AND PLOT PLAN FOR AN APPROXIMATELY 1,328,853 SQUARE FOOT WAREHOUSE/DISTRIBUTION BUILDING (Report of: Planning Commission)

Public Hearing Opened: 7:04 PM.

Motion to deny Resolution Number 2021-41 regarding the proposed General Plan Amendment was made by Commissioner Sims and seconded by Commissioner DeJohnette.

Vote: 4-0
Noes: Commissioner Sims, Vice Chairperson DeJohnette, Commissioner Brugueras and Chairperson Korzec.
Recused: Commissioner Cobian
Action: **Approved**

Public Speaker:

Joe Bunker, opposes item.
Nathaly Oztiz, opposes item.
Emma Pacheco, opposes item.
Janet Bernabe, opposes item.
Alex Zamora, supports item.
Susan Zeitz, opposes item.
Lindsay Robinson, opposes item.
Bianca Blua, opposes item.
David Zeitz, opposes item.

Public Hearing Closed: 9:28 PM.

OTHER COMMISSION BUSINESS

No items for discussion.

STAFF COMMENTS

No items for discussion.

* ALL PLANNING COMMISSION MEETINGS ARE VIDEO/AUDIO RECORDED. THIS RECORD IS AVAILABLE FOR REVIEW 1 BUSINESS DAY AFTER EACH MEETING AND CAN BE ACCESSED VIA THE FOLLOWING LINK http://morenovalleyca.iqm2.com/Citizens/Calendar.aspx

Attachment: Planning Commission Minutes of October 28, 2021 (6209 : Moreno Valley Trade Center/Park)

PLANNING COMMISSIONER COMMENTS

Chairperson Korzec thank our City Attorney for moving us through this process and helping us stay on target.

ADJOURNMENT

There being no further business to come before the Planning Commission, Chairperson Korzec adjourned the meeting at 9:30 PM.

Submitted by:

Naudia Samuels
Planning Commission Secretary

Approved by:

Patricia Korzec
Chairperson

Attachment: Planning Commission Minutes of October 28, 2021 (6209 : Moreno Valley Trade Center/Park)

* ALL PLANNING COMMISSION MEETINGS ARE VIDEO/AUDIO RECORDED. THIS RECORD IS AVAILABLE FOR REVIEW 1 BUSINESS DAY AFTER EACH MEETING AND CAN BE ACCESSED VIA THE FOLLOWING LINK http://morenovalleyca.iqm2.com/Citizens/Calendar.aspx

Irvine, CA | San Diego, CA | Murrysville, PA
3200 El Camino Real, Suite 100 | Irvine, CA 92602 | p 714.505.6360

JN 941-007

MEMORANDUM

TO: Gabriel Diaz, Associate Planner
City of Moreno Valley
14177 Frederick Street
Moreno Valley, California 92552

FROM: David Ornelas, Senior Project Manager

DATE: May 27, 2022

RE: Moreno Valley Trade Center – Revised Project Evaluation

T&B Planning, Inc. (T&B Planning) is the CEQA consulting firm that prepared the Environmental Impact (EIR) report for the proposed Moreno Valley Trade Center project (PEN19-0191, PEN19-0192, PEN19-0193, and PEN19-0234). The Project was presented to the Moreno Valley City Council on December 7, 2021, but was continued to allow the Applicant an opportunity to investigate modifications to the Project's design that may lessen its impact on the local environment. We understand that the Applicant has since made numerous changes to the design of the Project. At the request of the City of Moreno Valley Community Development Department, Planning Division, T&B Planning has prepared this memorandum to evaluate whether the changes to the Project would: 1) result in new significant environmental impacts that were not disclosed in the Draft EIR; or 2) result in significant impacts that are more severe than the impacts that were disclosed in the Draft EIR.

As supported by the discussion provided on the following pages, T&B Planning's determination is that the changes to the Project would neither result in a new significant environmental impact that was not previously disclosed nor increase the severity of a previously disclosed significant impact. Accordingly, there are no changes needed to the analysis or mitigation measures contained in the Draft EIR and re-circulation of the Draft EIR is not warranted according to the guidance set forth in Section 15088.5 of the CEQA Guidelines. Furthermore, no changes are needed to the analyses or mitigation measures contained in the Final EIR that is under consideration by the Moreno Valley City Council.

I. REVISED PROJECT DESCRIPTION

Section 3.0, *Project Description*, of the Draft EIR included a detailed description of the original Project proposal (hereinafter "Original Project"). The modifications incorporated into Project (hereinafter "Revised Project") are listed below. With the exception of the items listed below, all components of the proposed development and characteristics of proposed building's construction and operation listed in Section 3.0 of the EIR remain applicable to the Revised Project. Figure 1 illustrates the proposed site plan for the Revised Project.

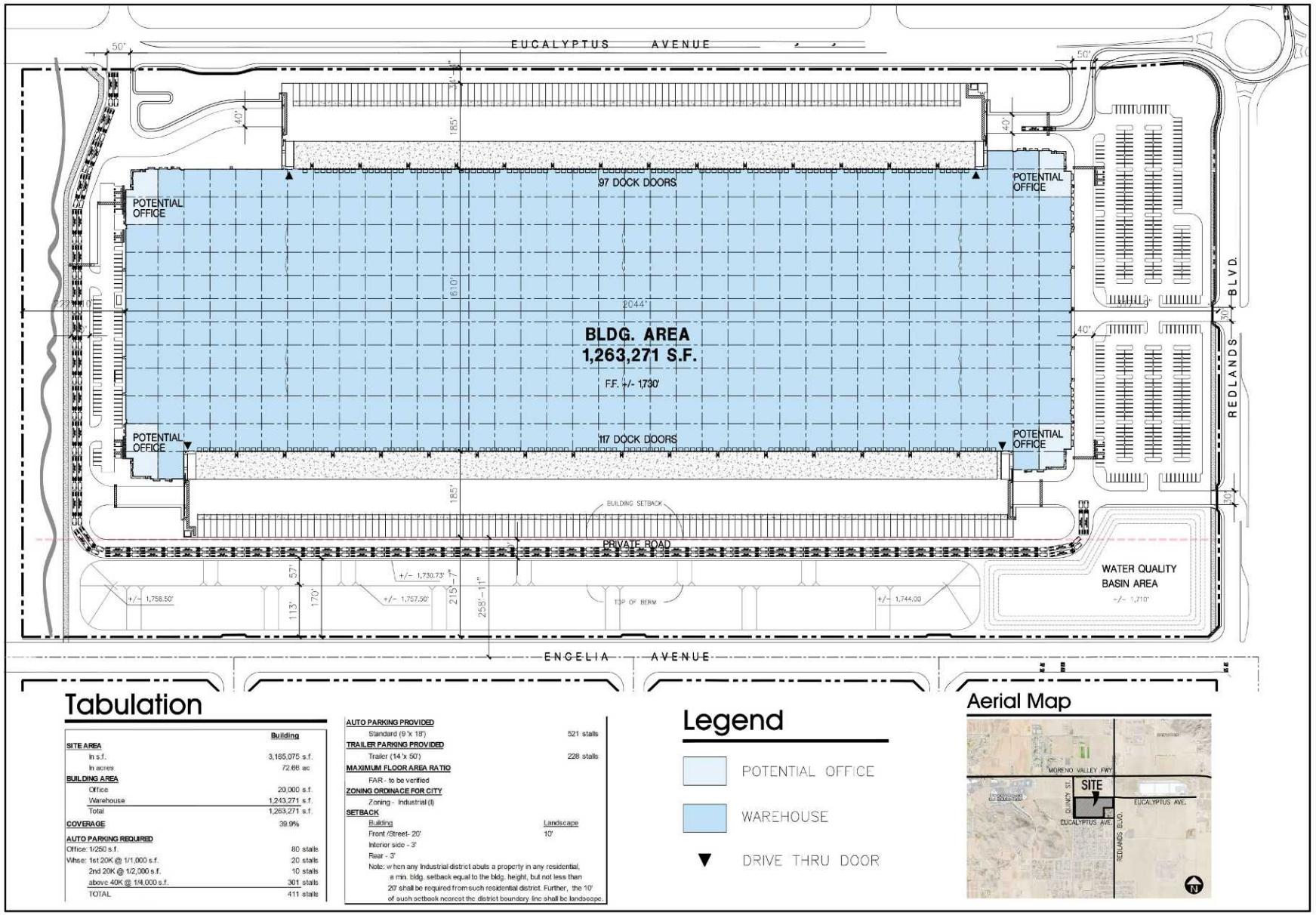
- The Revised Project provides a light industrial building with approximately 1,263,271 square feet (s.f.) of interior floor area, which is a reduction of 65,582 s.f. from the original Project proposal.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

- The Revised Project provides 97 loadings docks on the north side of the building and 117 loading docks on the south side of the building, which is a reduction of seven (7) loading docks on the north side of the building and four (4) loading docks on the south side of the building, respectively, from the original Project proposal.
- The Revised Project provides 228 trailer parking spaces, which is 10 fewer trailer spaces than provided by the original Project proposal.
- The Revised Project provides 521 passenger vehicle parking spaces, which is 86 fewer passenger vehicle parking spaces than provided by the original Project proposal.
- The Revised Project eliminates all the driveways that were originally planned along Encelia Avenue. This will eliminate any vehicular ingress and egress along Encelia Avenue. [Note: Since the Revised Project will eliminate all vehicular driveways along Encelia Avenue, the following improvements required of the Original Project will not be needed for the Revised Project: 1) the installation of rubberized asphalt on Encelia Avenue; and 2) the installation of a traffic signal at the intersection of Encelia Avenue and Redlands Avenue.]
- The Revised Project provides a finished floor elevation of 1,732.25 feet above mean seal level (amsl), which is approximately 3.25 feet lower than the finished floor elevation provided by the original Project proposal (1,735.51 amsl). The reduction to finished floor elevation would reduce the perceived height of the building.
- The Revised Project provides a 35-foot-tall, solid earthen berm at the interface between the southern Project Site boundary and Encelia Avenue. The berm would be densely landscaped with trees, shrubs, and groundcovers.
- The Revised Project requires all trucks to access the Project site via Eucalyptus Avenue, thereby eliminating the truck access point from Redlands Boulevard from the original Project proposal.
- The Revised Project provides for the installation of traffic signals at the following locations: 1) on Eucalyptus Avenue at the proposed western driveway to the Project site; and 2) on Redlands Boulevard at the proposed northern driveway to the Project site.
- The Revised Project provides a water quality/detention basin at the southeastern corner of the Project site.

Similar to the Original Project, the Revised Project includes a site design concept for a fulfillment/e-commerce user. As disclosed in the Draft EIR, the fulfillment/e-commerce design concept is not proposed by the Applicant and is not under consideration for approval by the City; the fulfillment/e-commerce design concept is disclosed for informational purposes. All of the bulleted items listed above that were incorporated into the Revised Project also were incorporated into the fulfillment/e-commerce design concept with the exception of the following: 1) Zero (0) loading docks are provided on the south side of the proposed building; 2) 104 trailer parking stalls are provided (all are located on the north side of the building); and 3) 1,381 passenger vehicle parking stalls are provided. Figure 2 illustrates the conceptual site plan for the fulfillment/e-commerce option.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)



Tabulation

	Building
SITE AREA	
In s.f.	3,165,075 s.f.
In acres	72.66 ac
BUILDING AREA	
Office	20,000 s.f.
Warehouse	1,243,271 s.f.
Total	1,263,271 s.f.
COVERAGE	39.9%
AUTO PARKING REQUIRED	
Office: 1/250 s.f.	80 stalls
Whse: 1st 20K @ 1/1,000 s.f.	20 stalls
2nd 20K @ 1/2,000 s.f.	10 stalls
above 40K @ 1/4,000 s.f.	301 stalls
TOTAL	411 stalls

AUTO PARKING PROVIDED		
Standard (9'x 18')		521 stalls
TRAILER PARKING PROVIDED		
Trailer (14'x 50')		228 stalls
MAXIMUM FLOOR AREA RATIO		
FAR - to be verified		
ZONING ORDINACE FOR CITY		
Zoning - Industrial (I)		
SETBACK		
Building	Landscape	
Front /Street- 20'	10'	
Interior side - 3'		
Rear - 3'		

Note: when any Industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.

Legend

- POTENTIAL OFFICE
- WAREHOUSE
- DRIVE THRU DOOR

Aerial Map

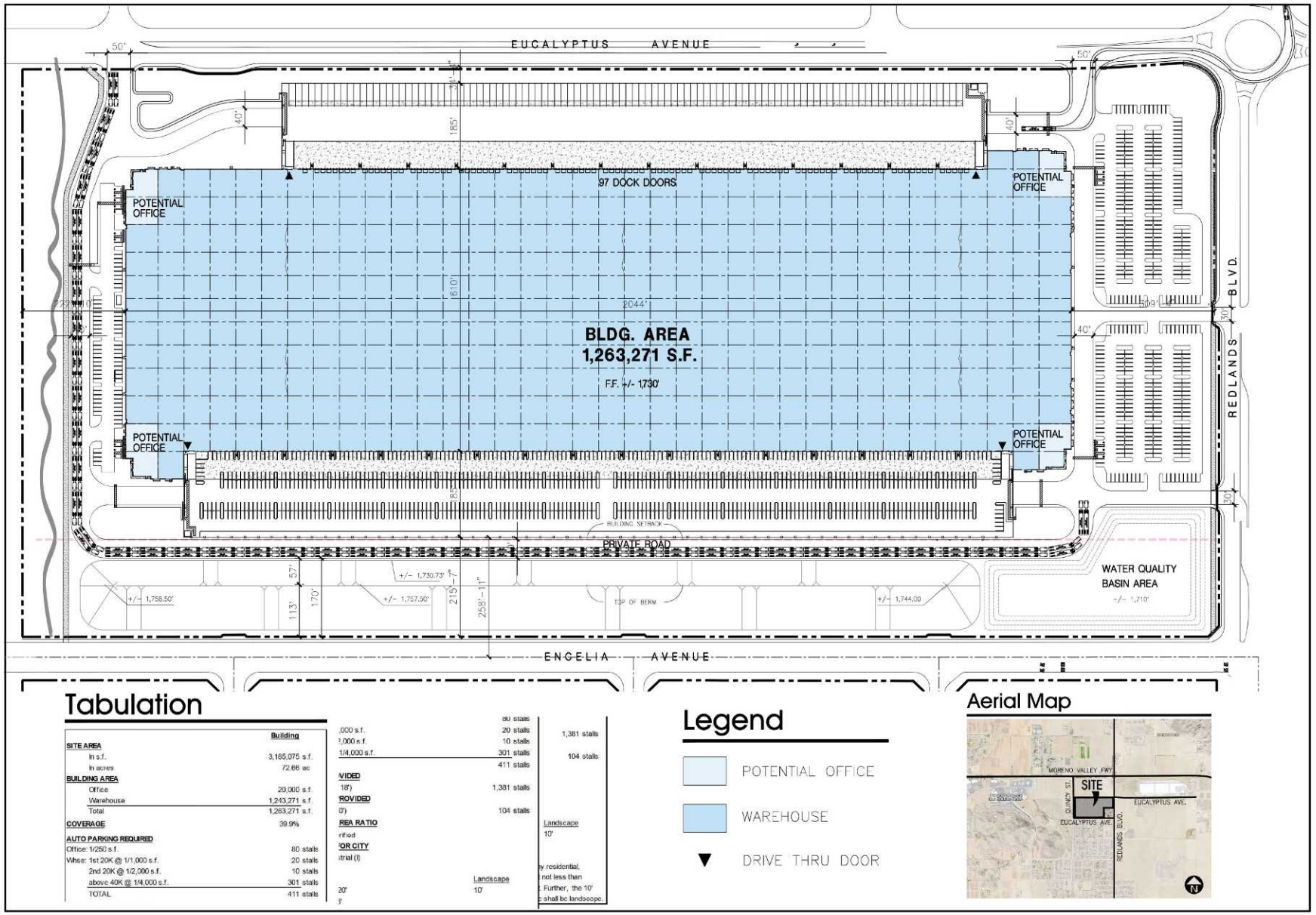
Source(s): HPA (01-31-2022)

Figure 1

Not to Scale

Revised Project Site Plan

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade



Source(s): HPA (01-31-2022)

Figure 2

Not to Scale

Conceptual Fulfillment/E-Commerce Site Plan

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade

II. REVISED PROJECT ENVIRONMENTAL IMPACT ANALYSIS

This section provides a comparison of the environmental impacts that were disclosed in the Draft EIR against the potential direct, indirect, and cumulatively-considerable environmental impacts that could result from the planning, construction, and/or operation of the Revised Project.

A. Aesthetics

The Draft EIR concluded that the Original Project would result in significant and unavoidable impacts related to scenic vistas. The Draft EIR disclosed that implementation of the Original Project would mostly or completely block views of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) as viewed from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Additionally, the Draft EIR disclosed that implementation of the Original Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site on the north. The Draft EIR concluded the above-listed impacts also would occur under the Original Project's fulfillment/e-commerce development concept.

The Revised Project, including its revised fulfillment/e-commerce development concept, would not avoid the significant and unavoidable impact to scenic vistas that was disclosed in the Draft EIR. The Revised Project would continue to block views of Reche Canyon, the Badlands, and San Bernardino Mountains from the Encelia Avenue segment west of Shubert Street. Notwithstanding, the Revised Project would construct a earthen berm that is covered by densely planted landscaping which would provide a more complementary visual transition to the established residential community to the south of Encelia Avenue than the relatively open view into an industrial facility offered by the Original Project. Although the perceived height of the Revised Project would be approximately three (3) feet shorter than the Original Project, due to the lowering of the proposed finished floor elevation, this change would have no effect on significant impacts to scenic views of Mount Russell and its foothills from Eucalyptus Avenue.

Other impacts to aesthetics would be identical under the Revised Project to those disclosed in the Draft EIR: 1) The Project site does not contain scenic resources and is not located within the viewshed of a scenic highway; therefore, the Revised Project would not result in the loss of scenic resources on the Project site; 2) The Revised Project would not conflict with applicable regulations governing scenic quality; and 3) The Revised Project would not introduce any design features that produce substantial light or glare and the Revised Project would be required to comply with the Moreno Valley Municipal Code requirements related to artificial lighting to preclude substantial light trespass and sky glow.

Consistent with the information disclosed in the Draft EIR, the Revised Project's effect on aesthetics would be significant and unavoidable. The Revised Project would not result in impacts to aesthetics that were not previously disclosed in the Draft EIR.

B. Air Quality

The Draft EIR concluded that construction of the Original Project would result in less than significant impacts (both direct and cumulative) from regional and localized criteria air pollutant emissions. The Revised Project would

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

result in construction activities across the entire Project site and would utilize similar construction equipment (and in similar quantities) as disclosed in the Draft EIR for the Original Project. Therefore, the peak daily construction activities and air pollutant emissions for the Revised Project, including under its revised fulfillment/e-commerce development concept, are expected to be similar to the levels disclosed in the Draft EIR despite the Revised Project resulting in the construction of a smaller building. Based on the foregoing information, the Revised Project would not result in construction-related regional or localized air quality impacts that were not disclosed in the Draft EIR. It should be noted that the Draft EIR identified several MMs for construction activities to ensure compliance with State and local air quality regulations (i.e., MMs 4.2-1 through 4.2-4) even though construction-related air quality impacts would be less than significant. MMs 4.2-1 through 4.2-4 would continue to apply to the Revised Project.

The Draft EIR disclosed that operation of the Original Project would result in a significant environmental impact (on a direct and cumulative basis) from nitrogen oxide (NO_X) emissions and a less than significant impact from volatile organic compound (VOC), carbon monoxide (CO), sulfur oxide (SO_X), and particulate matter (PM_{10} and $PM_{2.5}$) emissions. MMs were required to address the significant impact from operational NO_X emissions (i.e., MMs 4.2-5 through 4.2-11); however, the Draft EIR disclosed that these MMs would not be adequate to reduce the operational NO_X impact to a less than significant level and no additional feasible MMs were available to avoid or further lessen the impact. The consulting firm Urban Crossroads conducted an analysis of emissions that would result from operation of the Revised Project. The operational analysis of the Revised Project found that operation of the Revised Project, including its revised fulfillment/e-commerce development concept, would reduce emissions of all criteria pollutants below the levels disclosed in the Draft EIR but the emissions reductions would not be sufficient to avoid the significant and unavoidable direct and cumulative impact from NO_X emissions that was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 3; Urban Crossroads, 2022b, p. 3). The Revised Project would be required to comply with all mitigation measures from the Draft EIR that address operational NO_X emissions. Based on the information above, operation of the Revised Project would not result in regional air quality impacts that were not disclosed in the Draft EIR.

The Draft EIR disclosed that operation of the Original Project would generate less than significant localized air pollutant emissions during operation – both localized criteria pollutant emissions and localized diesel particulate matter emissions. Because the Revised Project would feature less intensive building operations – due to a smaller building size and reduced heavy truck activity – operation of the Revised Project, including its fulfillment/e-commerce development concept, would result in localized criteria pollutant emissions that are less than what was disclosed in the Draft EIR and, also, would result in health risk impacts from diesel particulate matter emissions that are lower than what was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 5; Urban Crossroads, 2022b, p. 5). Based on the information above, operation of the Revised Project would not result in localized air quality impacts that were not disclosed in the Draft EIR.

Like the Original Project, the Revised Project would generate odors during short-term construction activities (e.g., diesel equipment exhaust, architectural coatings, asphalt) and long-term operation (e.g., diesel exhaust). However, similar to the Original Project, these odors would occur intermittently, be of short-term duration, and would not be substantial. Long-term operation would not create objectionable odors affecting a substantial number of people and impacts would be less than significant with compliance with mandatory regulatory requirements. The Revised Project would not result in new significant impacts related to air quality than those previously disclosed in the Draft EIR.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

As demonstrated by the preceding analysis, construction and operation of the Revised Project would result in similar or reduced impact to air quality when compared to the Original Project. Implementation of the Revised Project would not result in direct or cumulative air quality impacts that were not disclosed in the Draft EIR.

C. Biological Resources

The Revised Project would have an identical physical development footprint as the Original Project and, thus, the Revised Project would result in biological resources impacts that are the same as those disclosed in the Draft EIR. Therefore, the information disclosed in the Draft EIR related to biological resources impacts remains applicable to the Revised Project and the Revised Project would not result in impacts that were not previously disclosed in the Draft EIR. All mitigation measures (MMs) provided by the Draft EIR to address biological resources impacts (i.e., MMs 4.3-1 through 4.3-3) would be required for the Revised Project. With application of required mitigation, the Revised Project would result in less than significant impact to biological resources, which is the same conclusion drawn by the Draft EIR.

D. Cultural and Tribal Cultural Resources

The Revised Project would have an identical physical development footprint as the Original Project, although the Revised Project would have deeper excavations than the Original Project due to the lowering of the finished floor elevation. Implementation of the Revised Project would have no impact to known pre/proto-historic or historic archaeological resources or tribal cultural resources but would have the potential to uncover masked or buried resources during construction, which are the same conclusions made by the Draft EIR. The Revised Project would be required to comply with MMs 4.4-1 through 4.4-6 from the Draft EIR, which provide a protocol for the investigation and protection or removal of cultural and tribal cultural resources in the event such resources are discovered during construction. With application of the required mitigation, the Revised Project would result in less than significant impacts to cultural and tribal cultural resources. Based on the preceding analysis, the Revised Project would not result in impacts to cultural and/or tribal cultural resources that were not disclosed in the Draft EIR.

E. Energy

The Draft EIR concluded that the Original Project would not result in inefficient, wasteful, or unnecessary consumption of energy resources and, thus, would result in a less than significant environmental impact. The Revised Project would feature less intensive building operations than the Original Project – due to a smaller building size and reduced heavy truck activity – thus, operation of the Revised Project, including its revised fulfillment/e-commerce development concept, would consume less electricity, natural gas, and transportation fuels than the levels disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 4; Urban Crossroads, 2022b, p. 4). Because the Revised Project would consume less energy resources than the Original Project, implementation of the Revised Project would not result in environmental impacts related to energy use/consumption that were not disclosed in the Draft EIR.

F. Geology & Soils

The Revised Project would have an identical physical development footprint as the Original Project, although the Revised Project would have deeper excavations than the Original Project due to the lowering of the finished floor

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

elevation. The Revised Project would have a less than significant impact related to soil erosion during its construction and operation phases due to mandatory compliance with federal, State, and local water quality standards – this is the same conclusion drawn by the Draft EIR. The Revised Project would be required to comply with the same regulatory and design requirements that were disclosed in the Draft EIR to preclude substantial hazards associated with seismic ground shaking and the Project site's geologic conditions/characteristics. The Revised Project would result in less-than-significant impacts related to geology and soils hazards, which is the same conclusion drawn by the Draft EIR.

As disclosed in the Draft EIR, the Project site is underlain by soils with a high sensitivity for paleontological resources; therefore, the Revised Project has the potential to impact paleontological resources (the Original Project had the same impact). All MMs provided by the Draft EIR to address paleontological resources impacts (i.e., MMs 4.6-1 through 4.6-4) would be required for the Revised Project. With application of required mitigation, the Revised Project would result in less than significant impacts to paleontological resources, which is the same conclusion drawn by the Draft EIR.

Based on the foregoing analysis, the Revised Project would not result in geology and soils impacts that were not already disclosed in the Draft EIR.

G. Greenhouse Gas Emissions

The Draft EIR disclosed that implementation of Original Project would result in a cumulatively considerable environmental impact from greenhouse gas (GHG) emissions. MMs were required to reduce GHG emissions from the Original Project (i.e., MMs 4.2-5 through 4.2-11); however, the Draft EIR disclosed that these MMs would not be adequate to reduce the GHG impact to a less than significant level and no additional feasible MMs were available to avoid or further lessen the impact. Urban Crossroads performed an analysis of the GHG emissions that would result from the Revised Project. The analysis fund that implementation of the Revised Project, including its fulfillment/e-commerce development concept, would reduce GHG emissions below the levels disclosed in the Draft EIR but the emissions reductions would not be sufficient to avoid the significant and unavoidable cumulative impact from GHG emissions that was disclosed in the Draft EIR (Urban Crossroads, 2022a, p. 3; Urban Crossroads, 2022b, p. 3). The Revised Project would be required to comply with all mitigation measures from the Draft EIR that address GHG emissions. Based on the information above, operation of the Revised Project would not result in a GHG emissions impacts that were not disclosed in the Draft EIR.

H. Hazards & Hazardous Materials

The Draft EIR concluded that the Original Project would not create a significant hazard to the public or the environment related to the use, handling, storage, and/or transport of hazardous materials. Notwithstanding, the Draft EIR included several MMs (i.e., MM 4.8-1 through 4.8-3) to ensure compliance with applicable federal, State, and local regulations addressing hazardous materials during demolition and construction activities on the Project Site. The Revised Project requires similar construction activities/equipment as the Original Project would operate the same land uses on the Project site as the Original Project and, therefore, would have a similar, less than significant impact related to hazards and hazardous materials. The Revised Project would be required to comply with MMs 4.8-1 through 4.8-3. The Revised Project would not result in hazards and hazardous materials impacts that were not previously disclosed in the Draft EIR.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

I. Hydrology & Water Quality

The Draft EIR concluded that the Original Project would result in less than significant impacts to hydrology and water quality and no mitigation was required. The Revised Project would be required to implement a Storm Water Pollution Prevention Program during construction and a Water Quality Management Plan during operation to ensure that stormwater runoff does not contain substantial pollutant concentrations. The Revised Project would change the design of the Original Project's on-site water quality/detention basin system; however, the hydrology analysis performed by Thienes Engineering demonstrates that the Revised Project, including its e-commerce development concept, would not generate a volume or rate of stormwater runoff discharge that would exceed existing (i.e., pre-development) runoff volumes or rates or create a flood hazard downstream (Thienes, 2022a; Thienes, 2022b). The Revised Project would not result in impacts to hydrology and water quality that were not disclosed in the Draft EIR.

J. Land Use & Planning

The Draft EIR concluded that the Original Project would not physically divide an established community or result in significant land use and planning conflicts in the context of compliance with applicable environmental plans, policies, and regulations. Because the Revised Project would have an identical development footprint as the Original Project and proposes the same land use with a similar (but reduced intensity) development plan than the Original Project, the information disclosed in the Draft EIR and the conclusions drawn by the Draft EIR related to potential land use and planning impacts remain applicable to the Revised Project. The Revised Project would not result in impacts to land use and planning that were not already disclosed in the Draft EIR.

K. Noise

The Draft EIR concluded that the Original Project would not generate noise or vibration during construction that exceeded the standards established by the Moreno Valley Municipal Code. The Revised Project would result in construction activities across the entire Project site and would utilize similar construction equipment (and in similar quantities) as disclosed in the Draft EIR for the Original Project. Therefore, the peak daily construction activities and resulting construction noise and vibration for the Revised Project, including under its revised fulfillment/e-commerce development concept, are expected to be similar to the levels disclosed in the Draft EIR despite the Revised Project resulting in the construction of a smaller building. Based on the foregoing information, the Revised Project would not result in construction-related noise or vibration impacts that were not disclosed in the Draft EIR.

The Draft EIR also concluded that operation of the Original Project would not generate noise or vibration that exceeded the standards established by the Moreno Valley Municipal Code. The Revised Project would reduce the intensity of operations on the Project site, as compared to the Original Project, due to a reduction of building area and heavy truck activity (which results in a concomitant reduction in loading/unloading activity), which would result in lower operational noise and vibration levels than the Original Project. Based on a noise analysis performed by Urban Crossroads, the reduced intensity of operations on the Project site coupled with addition of the 35-foot-tall earthen berm along the southern Project site boundary would allow the Revised Project, including its fulfillment/e-commerce development concept, to achieve operational noise levels that are substantially lower than the Original Project – and lower than existing local ambient noise levels (Urban Crossroads, 2022c, pp. 1-2). For comparison, the established residential community located south of Encelia Avenue would experience noise

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

levels from the Revised Project that are approximately 56% less than the noise levels disclosed in the Draft EIR for the Original Project (ibid.). Accordingly, the Revised Project would not result in operational noise or vibration impacts that were not previously disclosed in the Draft EIR.

L. Transportation

The Draft EIR concluded that the Original Project would not conflict with local transportation plans and policies and, also, would generate a less than significant amount of vehicle miles traveled (VMT). The Revised Project, including its revised fulfillment/e-commerce development concept, would result in less passenger vehicle and heavy truck traffic than disclosed in the Draft EIR due to operation of a smaller (Translutions, 2022a). In addition, the Revised Project would result in different traffic patterns than disclosed in the Draft EIR due to the elimination of all access points to Encelia Avenue (which would eliminate all passenger vehicle traffic from the Project Site onto Encelia Avenue) and the elimination of a heavy truck access point on Redlands Boulevard (which would funnel all heavy trucks to the proposed driveways on Eucalyptus Avenue). According to analyses performed by the consulting firm Translutions, the revised traffic patterns of the Revised Project would not conflict with any local transportation plans and policies (Translutions, 2022b; Translutions, 2022c). Additionally, Translutions determined that the Revised Project would result in similar, less than significant impacts from VMT as the Original Project (Translutions, 2022a). Based on the information above, the Revised Project would not result in transportation impacts that were not previously disclosed in the Draft EIR.

M. Utilities & Service Systems

The Draft EIR concluded that the Original Project would result in less than significant impacts to utilities, including to wet utilities (water and sewer), storm drain facilities, dry utilities (electricity), and to public service systems, including water supply, sewer treatment, and solid waste disposal. Because the Revised Project would provide a smaller building than the Original Project (and would result in fewer employees working on the Project site), the Revised Project would have a lower demand for public utilities and service systems than the levels disclosed in the Draft EIR. Implementation of the Revised Project would not result in impacts to utilities and services that were not disclosed in the Draft EIR.

REFERENCES

Thienes Engineering, 2022a. Preliminary Hydrology Calculations Moreno Valley Trade Center: Option 1 High Cube Logistics Site Plan. April 5, 2022.

Thienes Engineering, 2022b. Preliminary Hydrology Calculations Moreno Valley Trade Center: Option 2 E-Commerce/Fulfillment Site Plan. April 5, 2022.

Translutions, 2022a. Moreno Valley Trade Center Trip Generation Comparison. April 22, 2022.

Translutions, 2022b. Moreno Valley Trade Center Traffic Impact Analysis Warehouse Scenario. April 9, 2022.

Translutions, 2022c. Moreno Valley Trade Center Traffic Impact Analysis E-Commerce Scenario. April 9, 2022.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Urban Crossroads, 2022a. Moreno Valley Trade Center (Warehouse Scenario) Air Quality, Greenhouse Gas, And Health Risk Assessment Evaluation. April 25, 2022.

Urban Crossroads, 2022b. Moreno Valley Trade Center (E-Commerce Scenario) Air Quality, Greenhouse Gas, And Health Risk Assessment Evaluation. April 25, 2022.

Urban Crossroads, 2022c. Moreno Valley Trade Center Warehouse Noise Summary. April 27, 2022.

Attachment: Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER
OPTION 1-HIGH CUBE LOGISTICS SITE PLAN
EUCALYPTUS AVENUE AND REDLANDS BLVD.
MORENO VALLEY, CALIFORNIA

PREPARED FOR
HILWOOD INVESTMENTS
901 VIA PIEMONTE, STE 1775
ONTARIO, CA 91764
PH. (949) 382-0033

APRIL 5, 2022

JOB NO. 3828

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

HYDROLOGY AND HYDRAULIC CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER

PREPARED
UNDER THE SUPERVISION OF

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. : 12/31/22

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

TABLE OF CONTENTS

INTRODUCTION 1
VICINITY MAP 2
MASTER DRAINAGE PLAN 3
EXISTING CONDITION 4
PROPOSED CONDITION HYDROLOGY 4
DETENTION 6
METHODOLOGY 7
SUMMARY 7

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

INTRODUCTION

A: PROJECT LOCATION

The project site is located at southwest corner of Eucalyptus Avenue and Redlands Boulevard in the City of Moreno Valley. Encelia Avenue is adjacent to the southerly property line. Please see the next page for vicinity map.

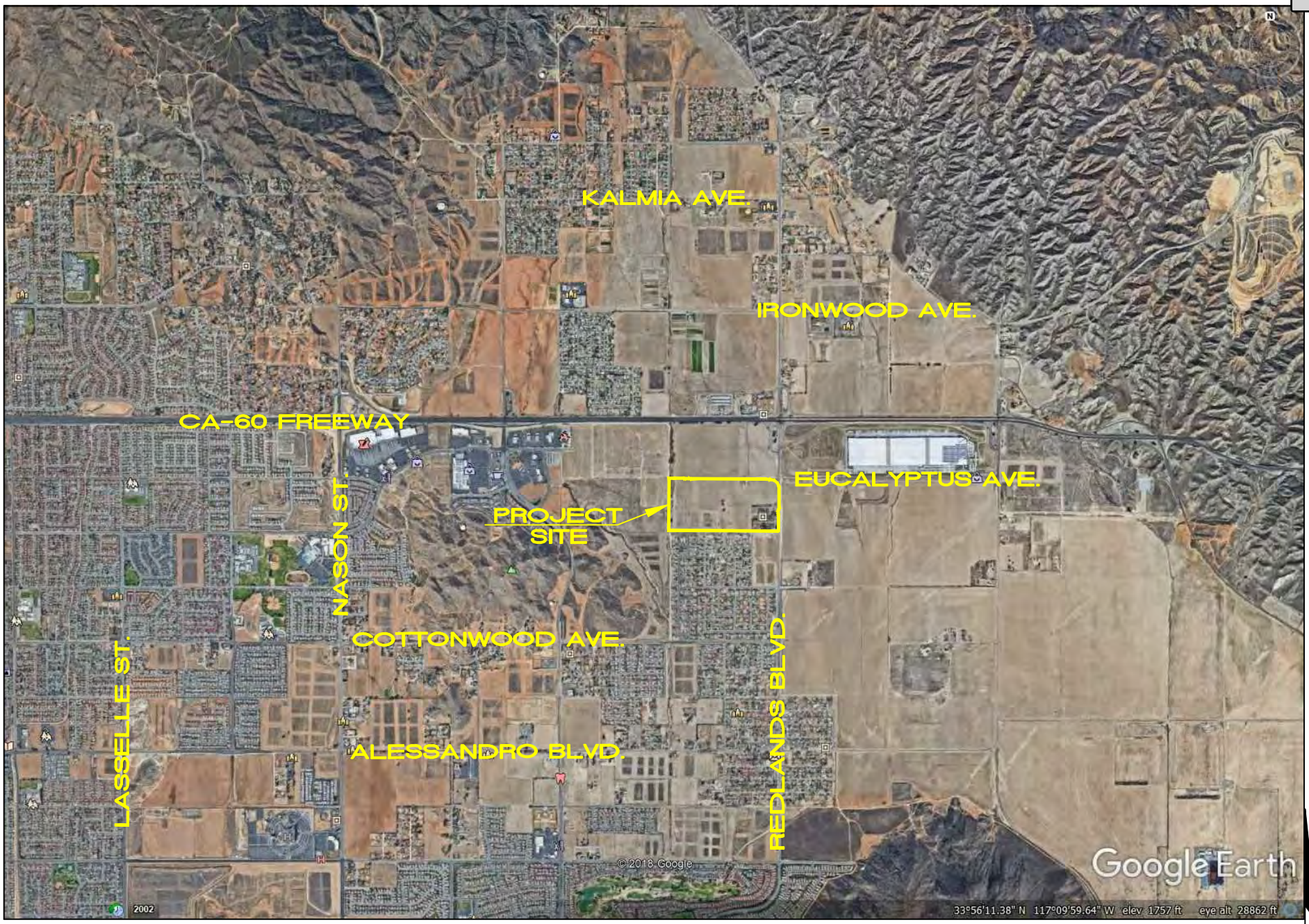
B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition peak flow rates for various storm events for the site. Discharge from the project site ultimately drains to an existing storm drain in Redlands Boulevard.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Kristie Ferronato
Brian Weil



Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

"VICINITY MAP"

FOR

EUCALYPTUS AVE. AND REDLANDS BLVD.

Last Update:11/6/19

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

DISCUSSION

The project site encompasses approximately 72.73 acres. However, several acres along the westerly property line are within an existing drainage channel (Quincy Wash) and will not be disturbed. Here, sheet piles will be constructed within the property site to protect the site from the Wash. Proposed improvements include one warehouse type building with approximately 1,328,853 square feet. There are truck yard areas on the northerly and southerly sides of the building. Vehicle parking is primarily on the easterly side of the property with some additional parking areas along the westerly drive aisle. There is a water quality/detention basin located along the southerly side of the side adjacent to Encelia Avenue. Additional landscaped areas are located adjacent to the streets and smaller areas throughout the project site.

Master Drainage Plan

The project site is tabled to a storm drain system in Redlands Boulevard (Moreno MDP Line F-2). At this time, only portions of the Master Plan Storm Drain system are constructed. Recent improvements to the north of the project site (Aldi Foods) constructed a portion of the ultimate storm drain in Redlands Boulevard. This is a 60"-72" storm drain (plans prepared by Huitt-Zollars) that connects to an existing 51" storm drain in Redlands Boulevard approximately 200' north of Eucalyptus Avenue and continues approximately 350' south of Eucalyptus Avenue to where it daylights into an existing unimproved earthen channel. This storm drain and channel is located at the easterly portion of the project site.

Runoff continues southerly in the unimproved earthen channel to an existing headwall located northerly of Dracaea Avenue. This is the upstream portion of Riverside County Flood Control and Water Conservation District storm drain Line "F-2". This is an existing 42" storm drain system that does not appear to be adequately sized for the peak flow rates specified in the recently constructed upstream storm drain system. The existing storm drain continues southerly past Brodiaea Avenue and discharges into an existing earthen channel (Line "F").

The Master Drainage Plan indicates a storm drain system in Eucalyptus Avenue (Lateral F-16). The necessary portions of this storm drain system was constructed with the Aldi Foods development to the north. In a memo dated December 23, 2020, Riverside County Flood Control and Water Conservation District (R.C.F.C.&W.C.D.) acknowledges that the "existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection." See Appendix "A" for a copy of this memo.

The Master Drainage Plan also indicates a storm drain system in Encelia Avenue (Lateral F-17) ranging from 42" to 60". The development of the project site will utilize a detention basin and onsite storm drain systems that will greatly reduce flow to Encelia Avenue such that only a shorter and smaller storm drain will be necessary in the street. In the same memo, R.C.F.C.&W.C.D. states "Since these facilities together collect and convey the

same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17".

See Appendix "A" for reference existing storm drain plans and a portion of the Master Drainage Plan.

Existing Condition

The project site is generally a vacant lot with natural grasses and weeds. The southeasterly portion of the site is an existing plant nursery. The nursery has a few small structures and appears unpaved. The westerly portion of the property is an unimproved drainage channel (Quincy Wash) and is not tributary to the project site.

Runoff from the site generally drains from north to south to Encelia Avenue at several locations (nodes 103, 105, 106, and 107 on existing condition hydrology map). Encelia Avenue drains from west to east to Redlands Boulevard ultimately to the existing channel adjacent to Redlands Boulevard.

Runoff from Redlands Boulevard flows southerly towards the intersection with Encilia Avenue and node 107. The 100-year Rational Method peak flow rate from the project site and adjacent streets approximately 108.4 cfs.

Runoff in Eucalyptus flows west to east and is intercepted by several riser inlet structures (nodes 112, 121, and 131). The respective 100-year Rational Method flow rates to each risers are approximately 4.2 cfs, 1.6 cfs, and 0.90 cfs.

See Appendix "B" for existing condition Rational Method calculations and Appendix "D" for existing condition hydrology map.

Existing condition hydrographs were established for various storm events. These peak flow rates and volumes are summarized below in the Detention discussion.

Proposed Condition Hydrology

Runoff from the northerly portion of the building, northerly truckyard and easterly parking lots (Nodes 100-115) will be captured in a proposed onsite storm drain system and conveyed southerly to an underground CMP detention system. Runoff from the southerly and westerly portions of the site (Nodes 200-219) will be conveyed to the southerly truck yard and confluenced with the runoff from the north.

Runoff from the detention basin in the southeasterly corner of the site (Node 220) will be confluenced in the proposed system and conveyed easterly. The 100-year peak flow rate from the project site is approximately 154.7 cfs.

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Discharge from the basin will be conveyed easterly through the project site in a proposed storm drain and connect to the proposed extension of the public storm drain system in Redlands Boulevard. This will eliminate runoff to Encelia Avenue as well as the need for Master Drainage Plan Lateral "F-17", as previously mentioned in R.C.F.C.&W.C.D. memo dated December 23, 2020. The proposed public storm drain will be sized to include the ultimate peak flow rates upstream as well as the discharge from the detention basin. Final design will dictate exact pipe sizes. The public storm drain will continue south in place of the open earth channel to the existing 42" storm drain near Dracaea Avenue. The existing headwall will be removed and the proposed drain will connect to the existing system.

The existing 42" downstream storm drain system does not have the same capacity as the proposed 78" storm drain system. To avoid overburdening the existing 42" storm drain, a relief system will be designed to ensure that flow not allowed into the existing facility can discharge to the street. This will emulate existing conditions where runoff that is not currently allowed into the storm drain (via existing headwall adjacent to the Redlands Avenue) can then drain to the street. Regardless of how the storm drain systems connect, runoff exceeding the capacity of the 42" storm drain system remains on westerly surface of Redlands Avenue. The final design shall be to the satisfaction of the City Manager or City Engineer.

The landscaped areas adjacent to Encelia Avenue will sheet flow to the street and join the street runoff flowing easterly towards the intersection with Redlands Boulevard (nodes 600-604). The runoff will be intercepted by a catch basin in Encilia Avenue and will enter the proposed public storm drain in Redlands Boulevard. The 100-year Rational Method peak runoff from these areas is approximately 7.1 cfs. With the proposed onsite improvements, this is the only drainage system required in Encilia Avenue.

The landscaped frontage along Eucalyptus Avenue will also drain to the street. Catch Basins at nodes 502 and 511 will intercept street and landscape runoff and convey it to the existing 54" storm drain in Eucalyptus Avenue. The 100-year Rational Method peak runoff to these nodes will be approximately 4.4 cfs and 2.8 cfs respectively.

Runoff from Redlands Boulevard and the adjacent project frontage will flow southerly within Redlands Boulevard to a catch basin near the intersection with Encilia Avenue (nodes 520-522). The 100-year Rational Method peak runoff to node 522 will be approximately 4.9 cfs.

Approximately 2.50 acres of area adjacent to the Quincy Wash at the westerly portion of the site will remain undisturbed. The landscaped frontage along Redlands Boulevard will produce a similar amount of runoff as the existing condition and will drain directly to the street.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Detention

Since downstream facilities do not appear to have capacity for the increase in peak flow and volume from the proposed commercial project, detention will be required to limit runoff to no more than that under existing conditions. Detention analysis is considered for the 2-, 5-, 10- and 100-year storm events. Riverside County allows "preliminary sizing of increased runoff basin may be based on the difference in volume between the developed condition and the pre-developed condition for the 24-hour duration event for the 10-year return frequency."

1-, 3-, 6-, and 24-hour hydrographs were established for all areas tributary to the detention basin for the 2-, 5-, 10- and 100-year events for both existing (undeveloped) and proposed conditions. For existing conditions, the land use is considered "open brush, poor cover". Proposed conditions assume all commercial development. Rainfall values are taken from the Riverside County Hydrology Manual. For the 2- and 5-year events, the loss rate is determined using an AMC I condition. For the 10-year event, AMC II was used and for the 100-year event AMC III was used.

Note that not all area of the project site drains to the detention basin, thus the areas used for the detention analysis are slightly smaller than the total project site. Areas not tributary to the detention basin are the areas to the west and south of the site. It is assumed that the landscaped areas produce about the same runoff rates and volumes as the undeveloped site.

The following table summarizes existing and proposed condition peak flow rates and volumes associated with the area to the detention basin. From the table, the largest difference in volume is approximately 12.25 acre-feet (10-year 24-hour event). The largest difference in peak flow rate is about 46.3 cfs (5-year 1-hour event). For preliminary sizing, the detention basin will be sized to detain the largest difference in volume. The preliminary underground CMP system will be sized to match this volume. The southeasterly basin meets the surface area and volume requirements necessary for water quality purposes per separate Water Quality Management Plan.

Final design will dictate the outlet features that will limit runoff from all of the above events to less than existing conditions. The landscaped areas tributary to the street would yield peak flow rates similar to existing condition and are not included in the hydrographs.

See Appendix "C" for existing and proposed condition hydrographs.

The following table summarizes existing and proposed condition hydrographs:

BASIN SUMMARY TABLE

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49

100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Methodology

Hydrology calculations were computed using Riverside County Rational Method program (by AES software). Hydrograph were computed using CIVILD software. The soil type is "B" per Riverside County Hydrology Manual. See Appendix "A" for reference material from the Riverside County Hydrology Manual.

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

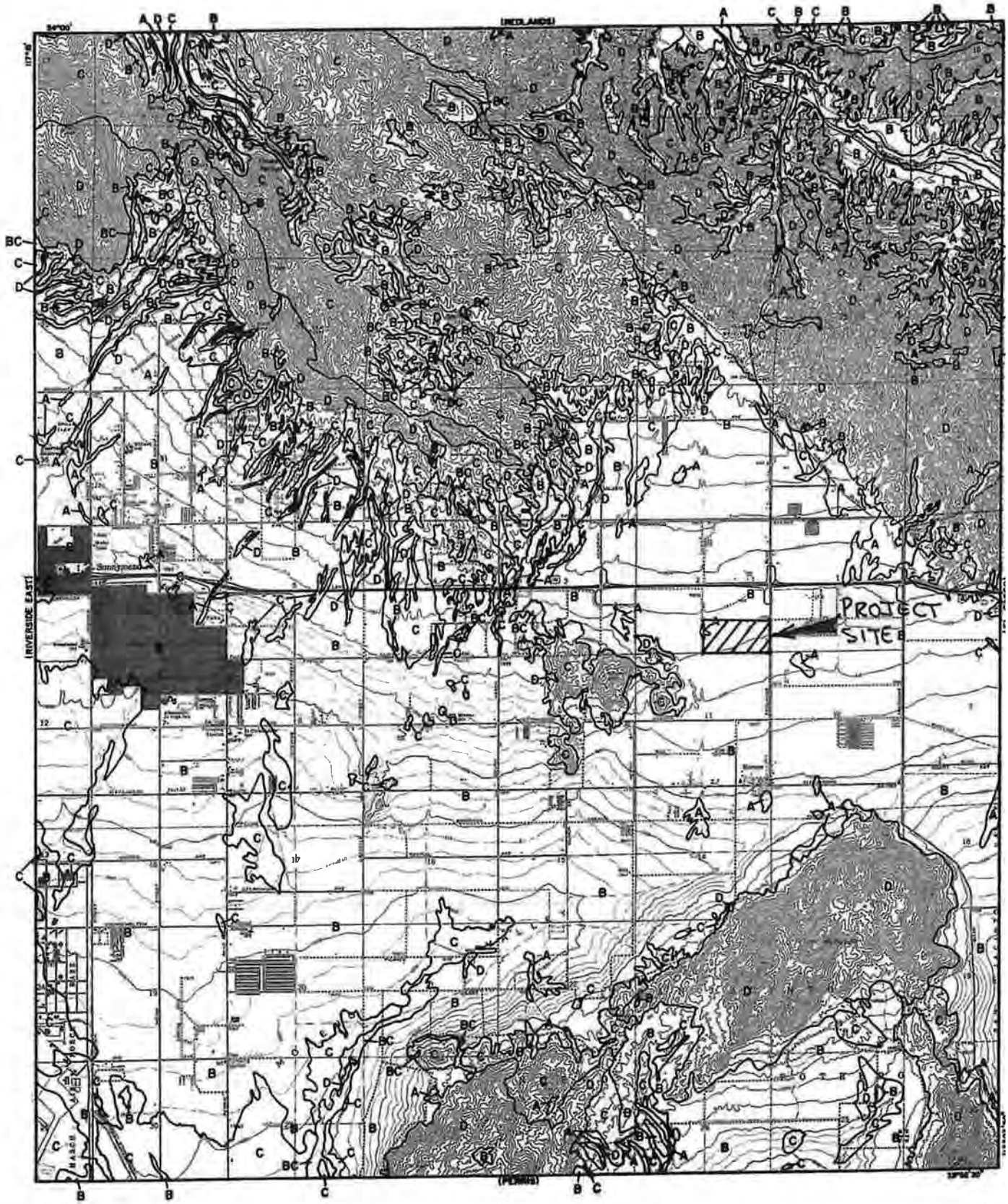
APPENDIX	TITLE
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX A

REFERENCE MATERIAL

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



LEGEND

SOILS GROUP BOUNDARY

A SOILS GROUP DESIGNATION

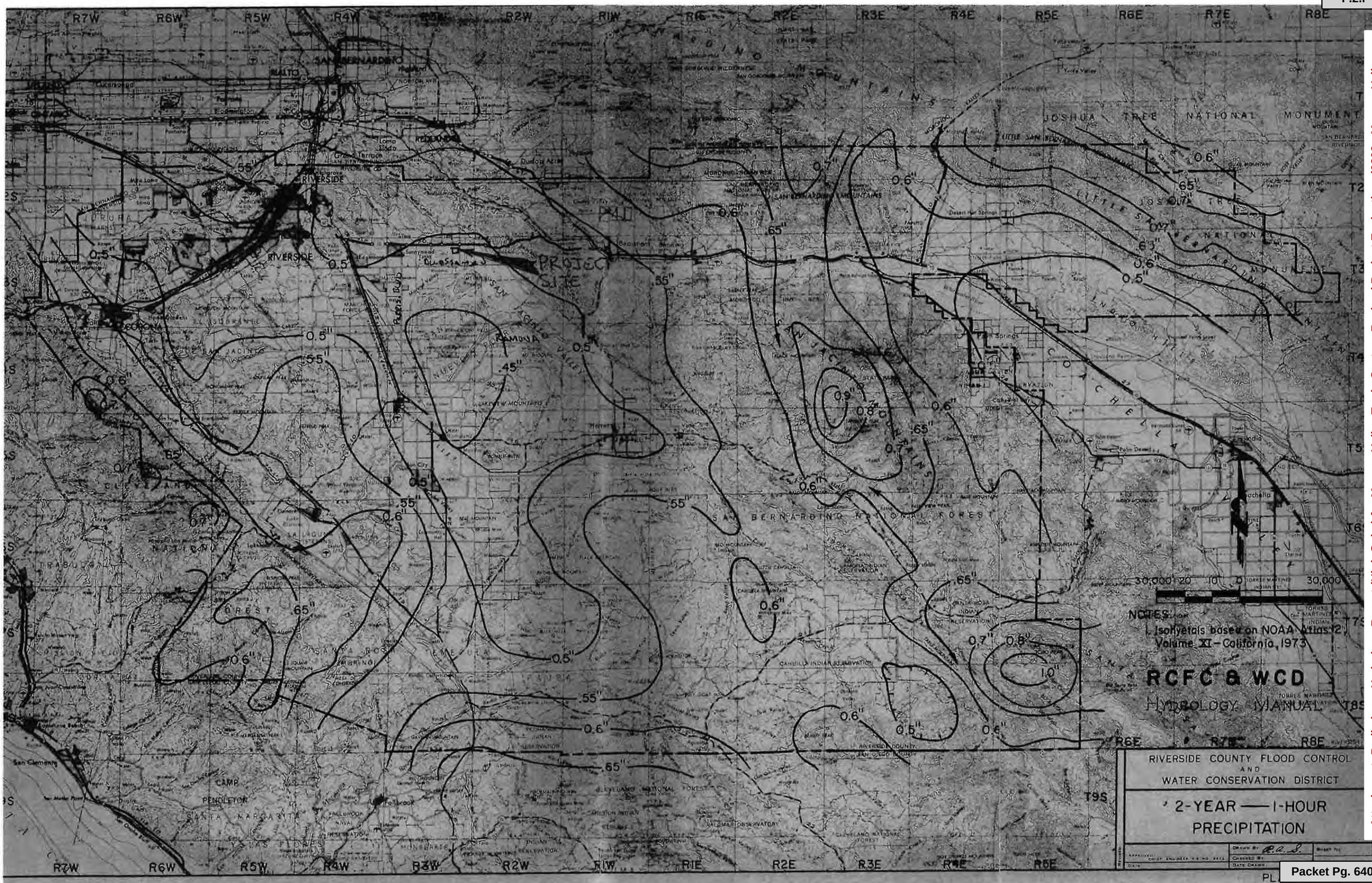
RCFC & WCD

HYDROLOGY MANUAL

0 FEET 5000

HYDROLOGIC SOILS GROUP MAP FOR SUNNYMEAD

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

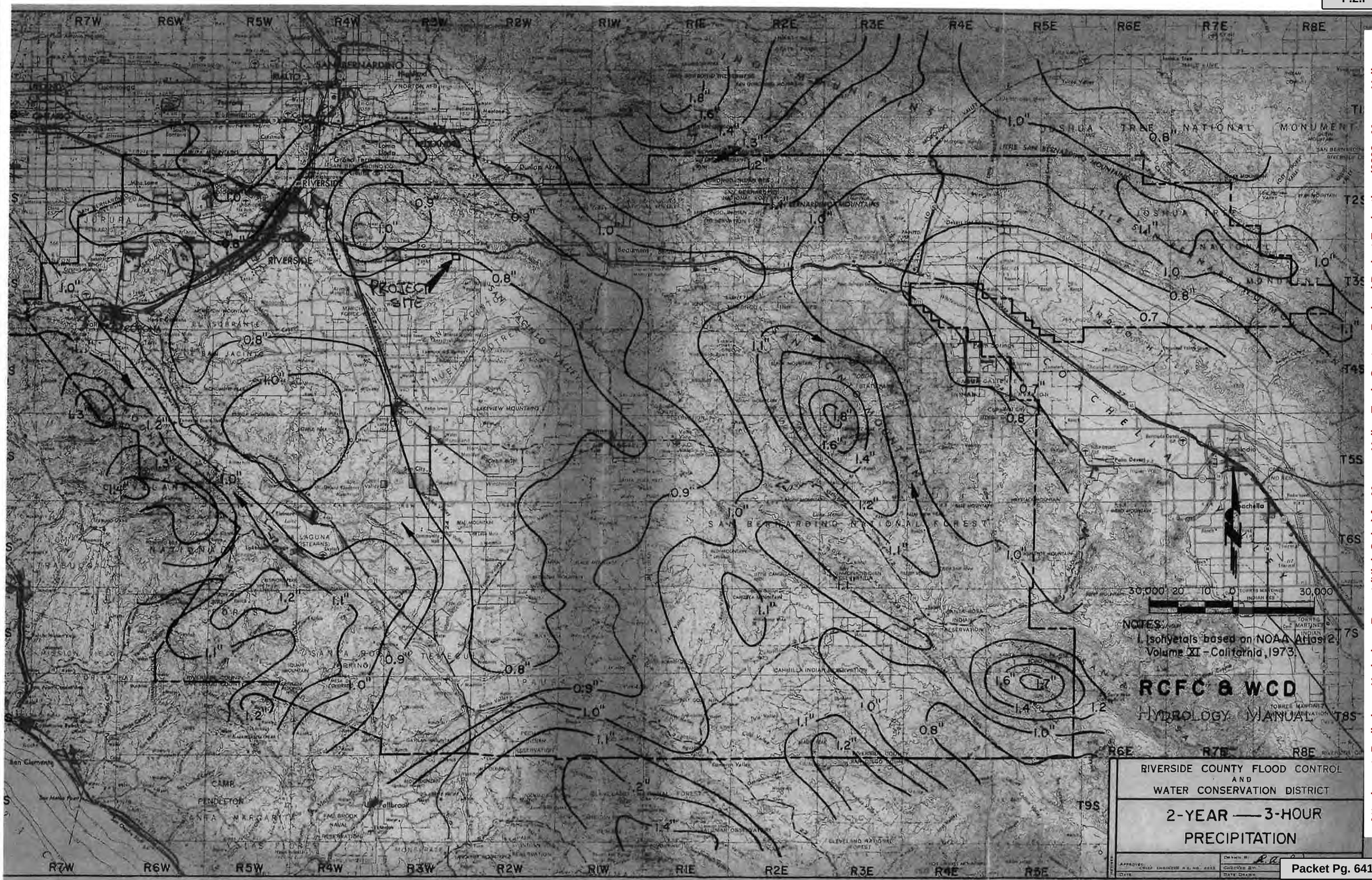
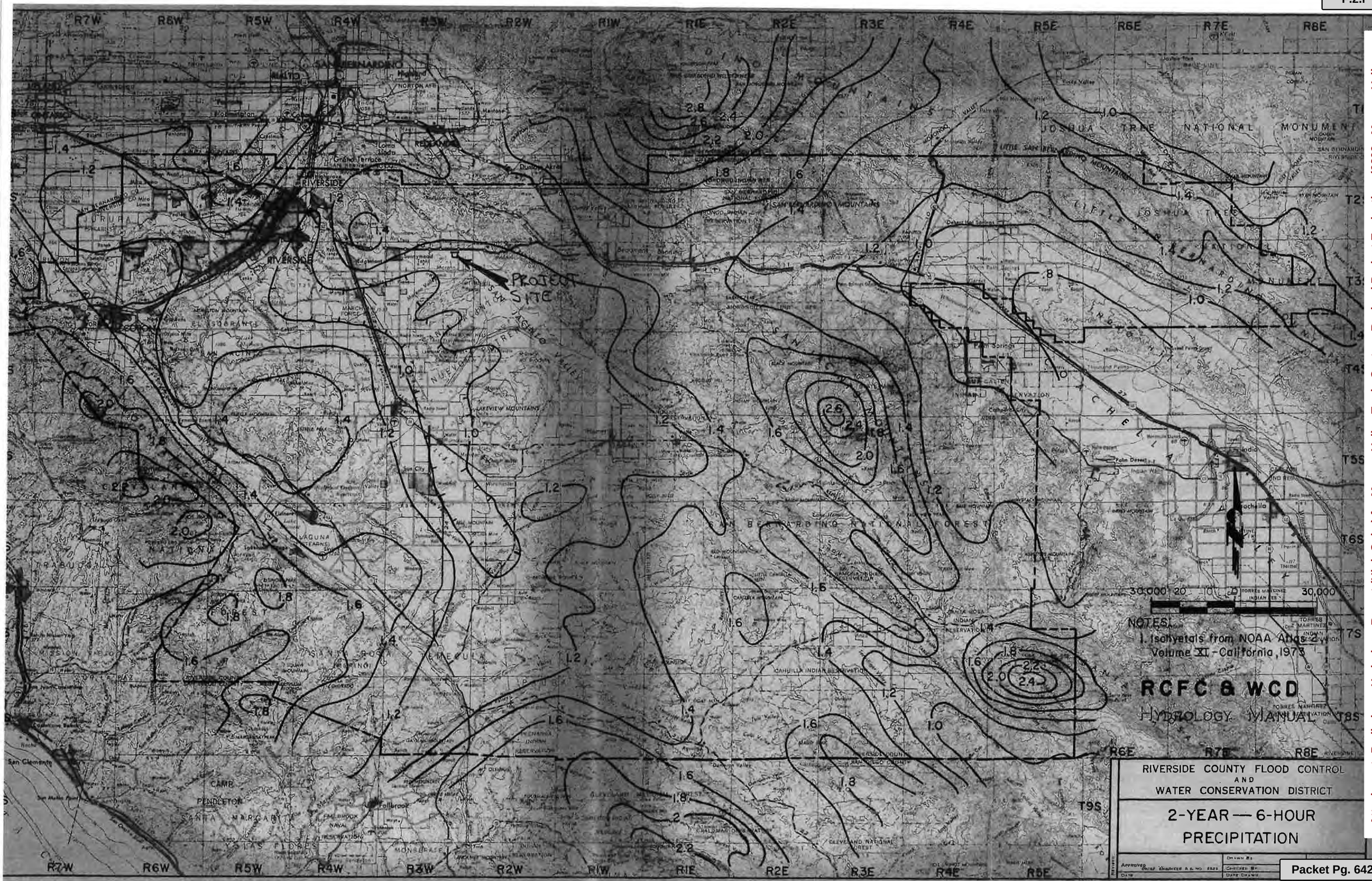
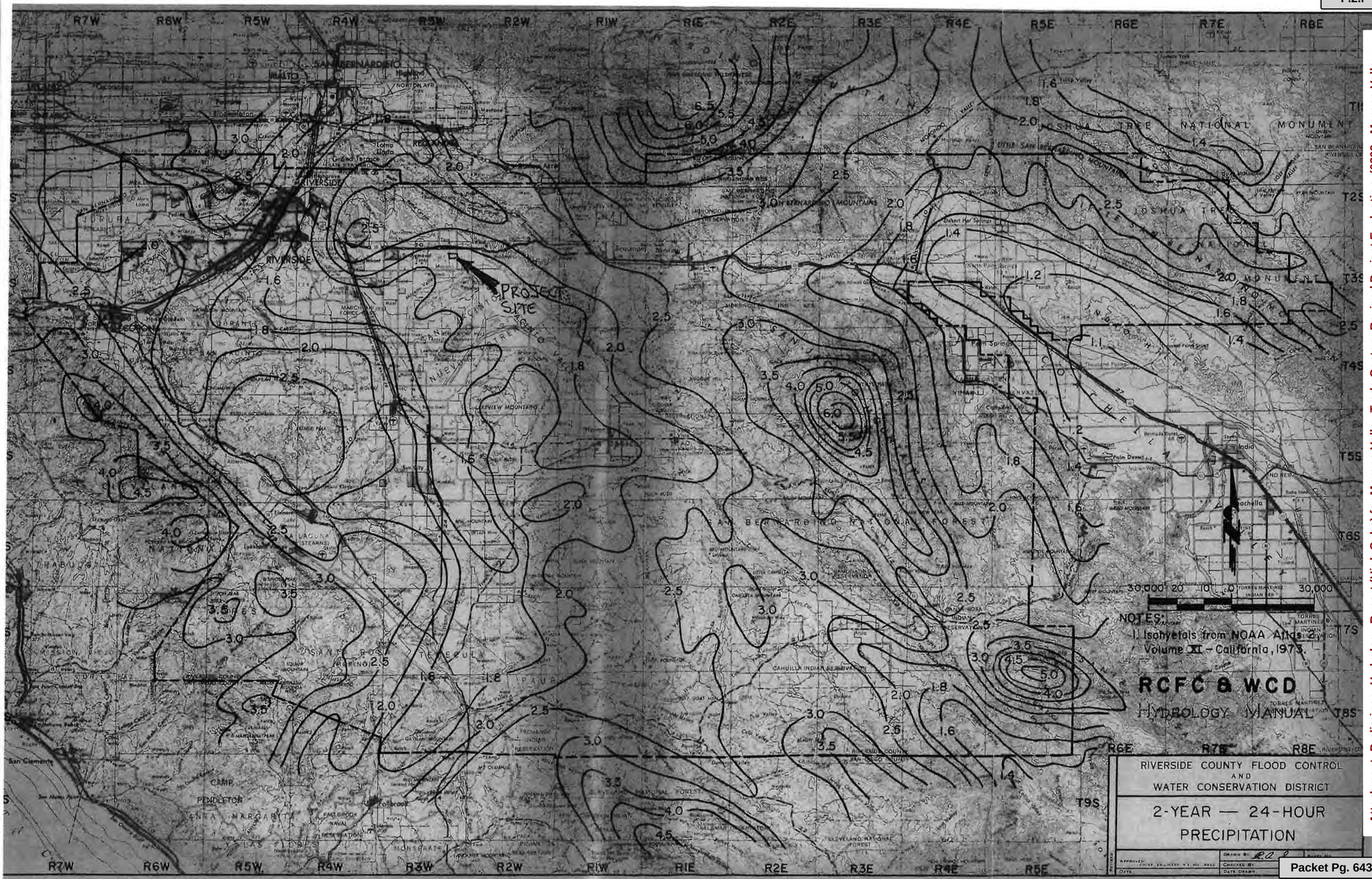
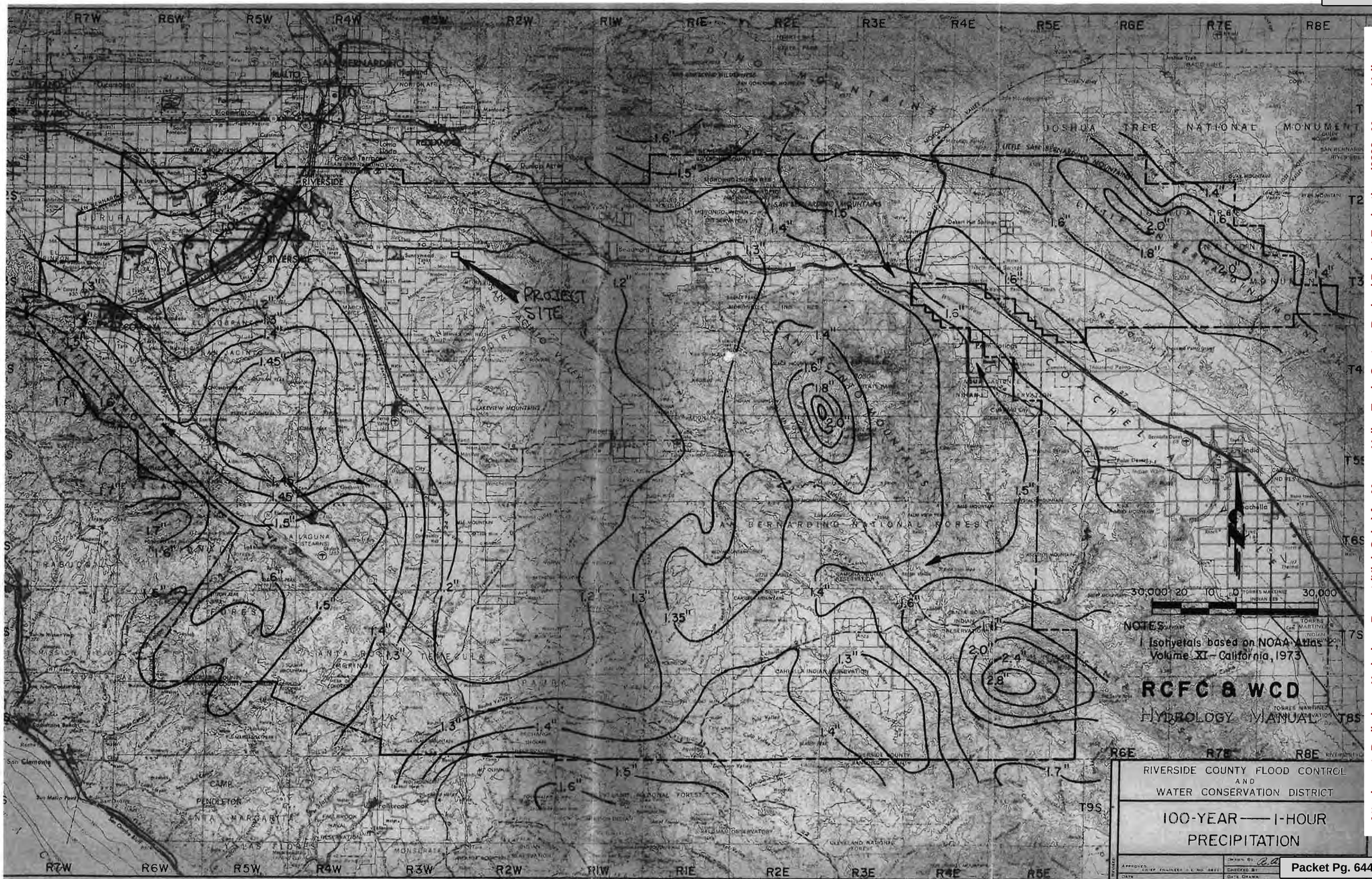


PLATE E-5.1

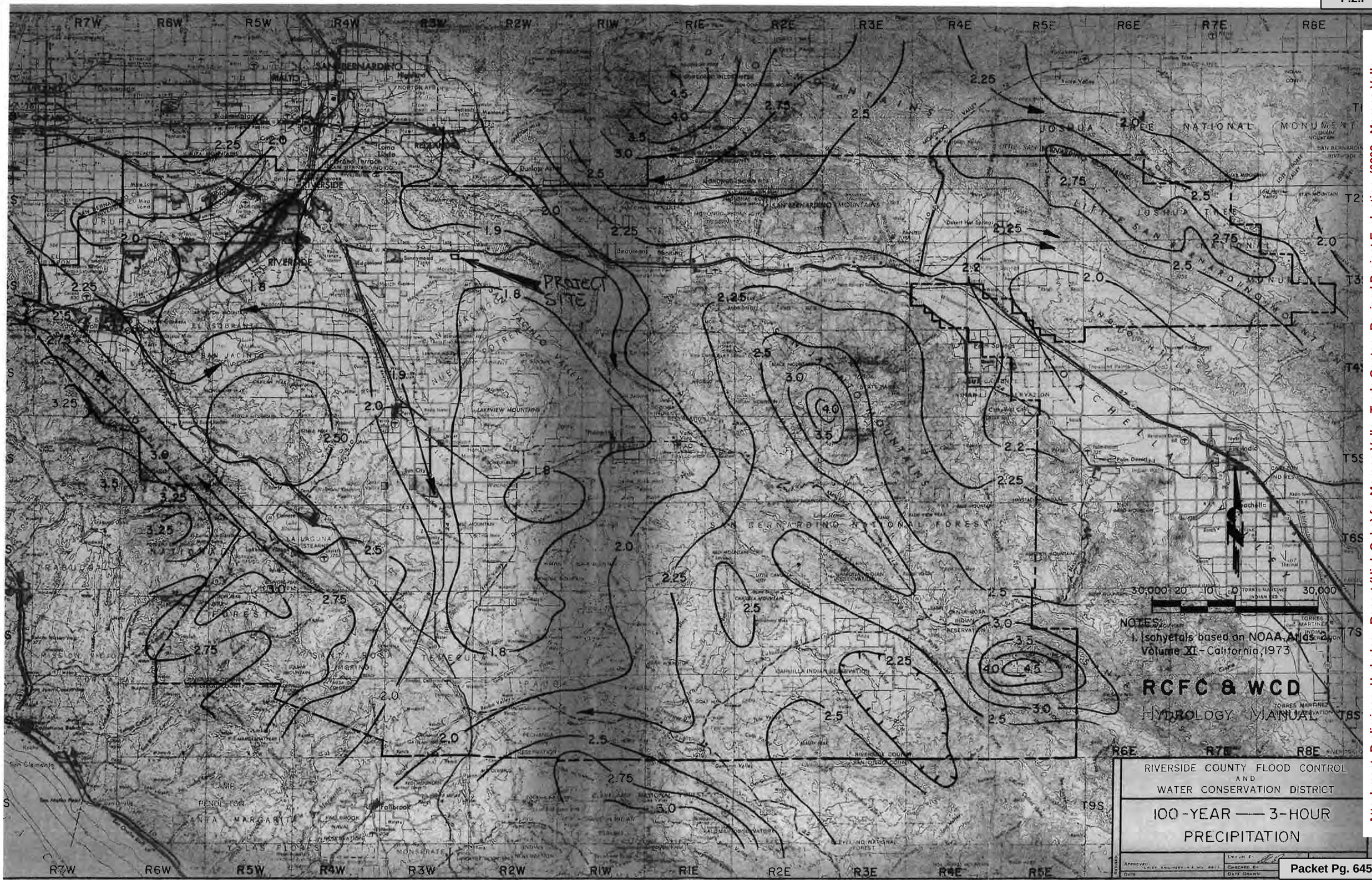


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

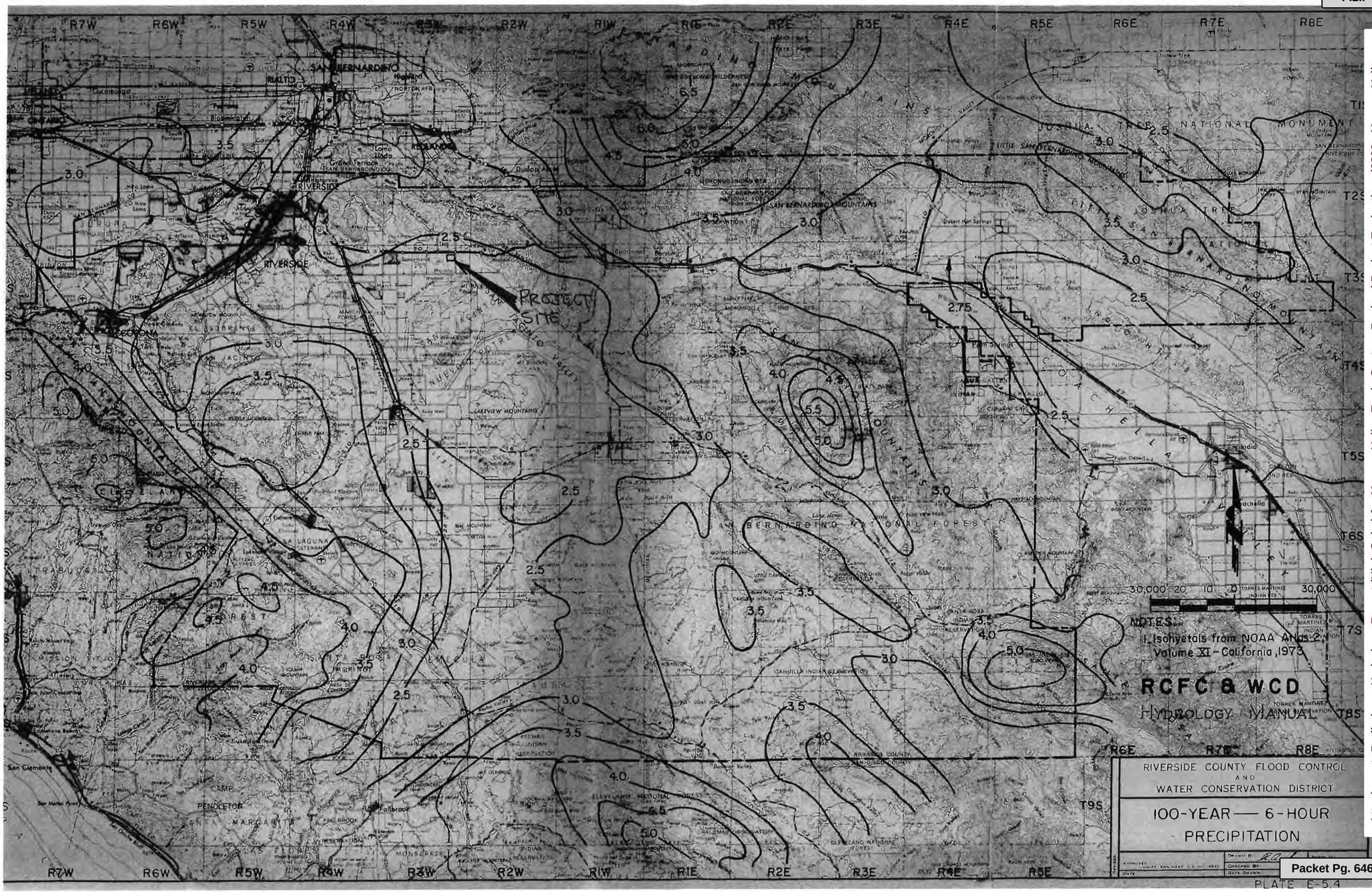

R7W
R6W
R5W
R4W
R3W
R2W
R1W
R1E
R2E
R3E
R4E
R5E
R6E
R7E
R8E
T2S
T3S
T4S
T5S
T6S
T7S
T8S
T9S
SAN BERNARDINO MOUNTAINS
SAN JACINTO MOUNTAINS
JOSHUA TREE NATIONAL MONUMENT
SAN BERNARDINO NATIONAL FOREST
CLEVELAND NATIONAL FOREST
CAHUILLA INDIAN RESERVATION
AGUA CALIENTE INDIAN RESERVATION
TORRES MARTINEZ INDIAN RES
SAN JACINTO INDIAN RESERVATION
PROJECT SITE
RIVERSIDE
SAN BERNARDINO
REDLANDS
Loma Linda
Grand Terrace
Colton
Rialto
Mira Loma
Jurupa
Norco
Corona
Temescal
Lake Elsinore
Perris
Moreno Valley
March Air Force Base
Sunnymead
Edgemont
Mt. Rubidoux
Box Spring Mountains
Reche Canyon
Badlands
Review Mountains
Alessandro
Woodcrest
Meadowbrook
Bloomington
Glen Avon
Pedley
Arlington
Home Gardens
Temescal Canyon
Wasson Canyon
Indian Canyon
Mission Creek
Morongo Valley
Yucca Valley
Desert Hot Springs
Palm Springs
Cathedral City
Rancho Mirage
Thousand Palms
Indio
Coachella
Palm Desert
Bermuda Dunes
Indian Wells
La Quinta
Mecca
Oasis
Salton Sea
Salton City
Imperial County
Riverside County
San Bernardino County
Orange County
San Diego County
CAMP PENDLETON
CAMP JOSEPH H. PENDLETON
CAMP MATAGUAY
CAMP MATAGUAY
CAMP MATAGUAY



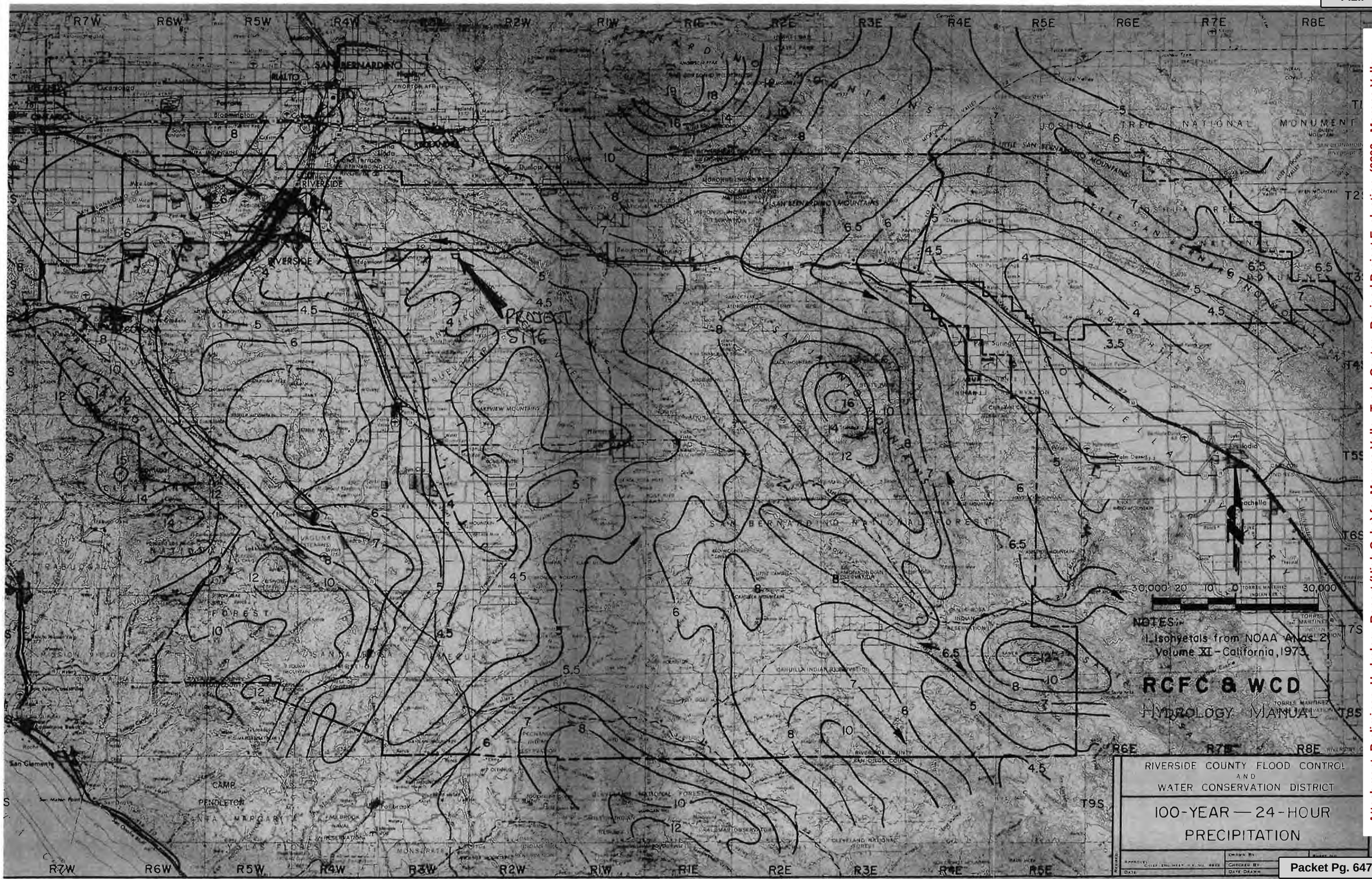
Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



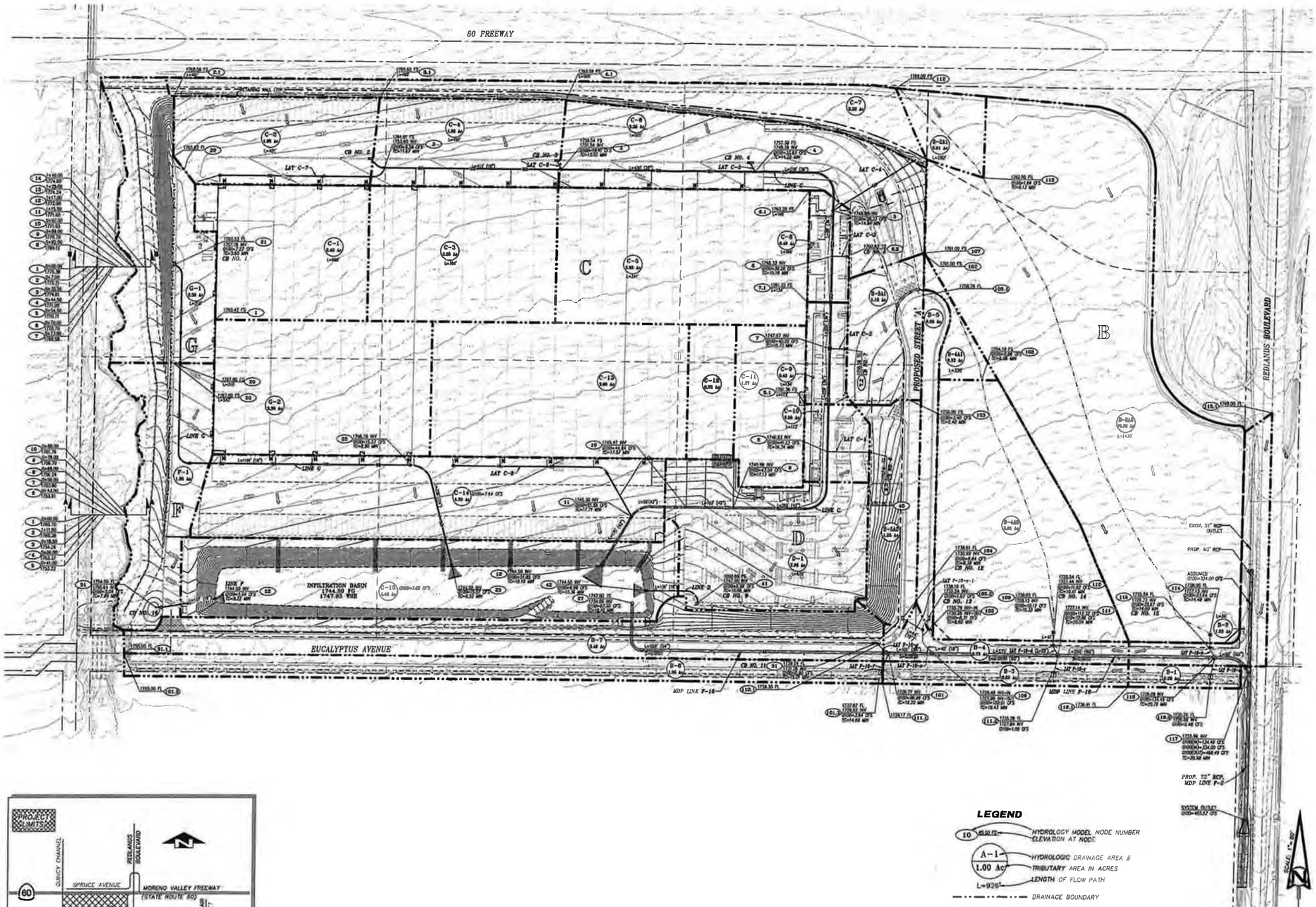
Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

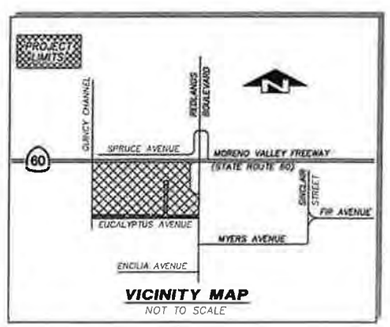


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley





VICINITY MAP
NOT TO SCALE

LEGEND

- 10 (65.50 FG) — HYDROLOGY MODEL NODE NUMBER / ELEVATION AT NODE
- A-1 / 1.00 Ac / L=926' — HYDROLOGIC DRAINAGE AREA # / TRIBUTARY AREA IN ACRES / LENGTH OF FLOW PATH
- DRAINAGE BOUNDARY
- FLOW PATH
- DIRECTION OF FLOW

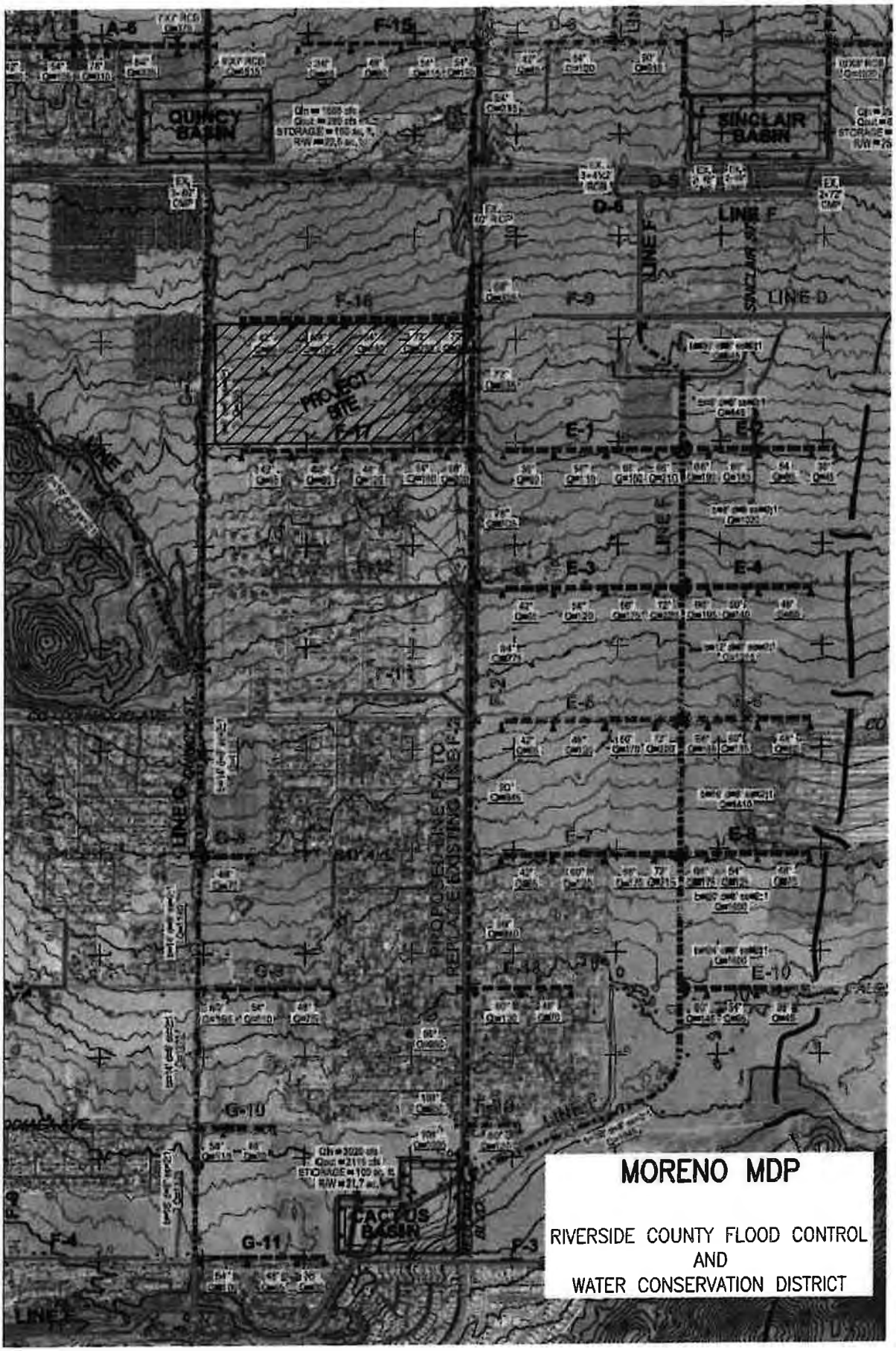
GRAPHIC SCALE
80 40 0 40 80 160 320
(IN FEET)
1" = 80'

HYDROLOGY MAP
FOR
ALDI INDUSTRIAL WAREHOUSE
REDLANDS BOULEVARD & EUCALYPTUS AVENUE
CITY OF MORENO VALLEY

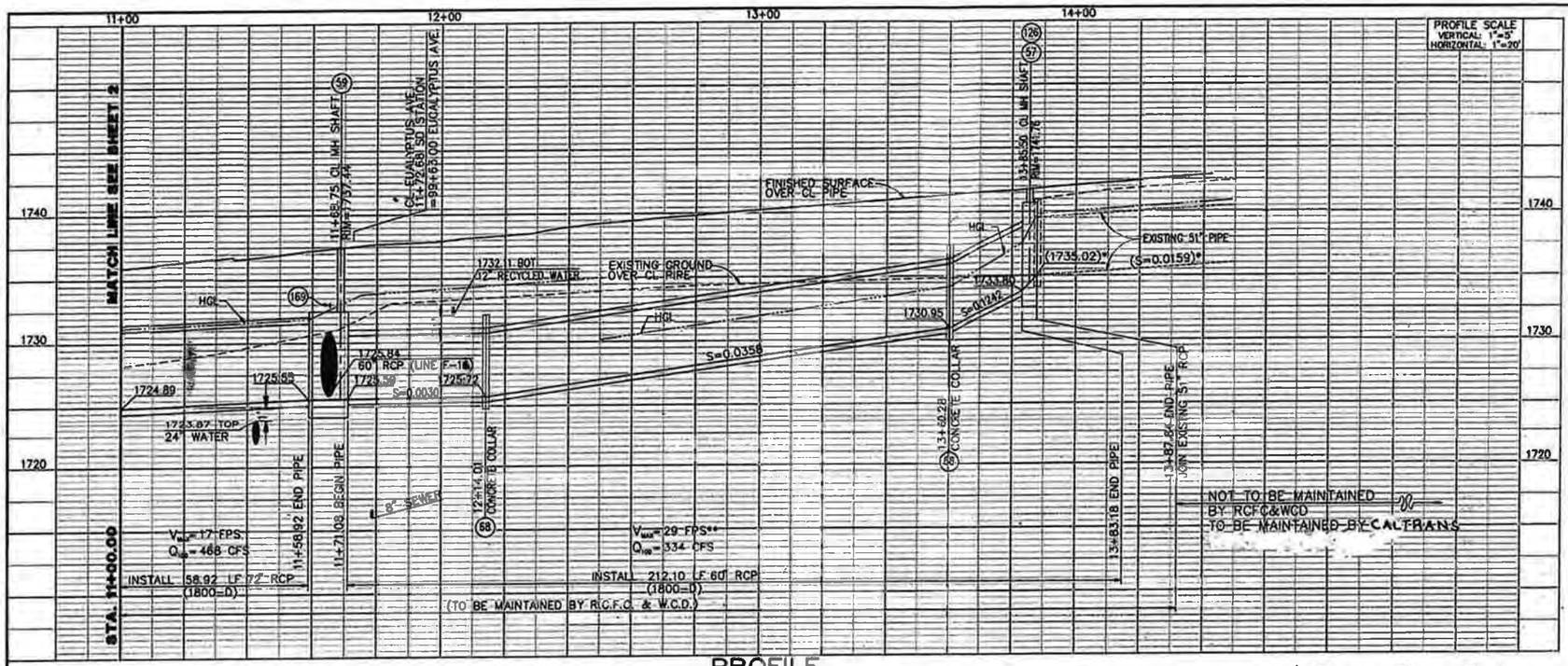
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario

M.H.M.
M-Z STAFF
M.H.M.
MAURICE H. MURAD
33386
6-30-14
SHEET

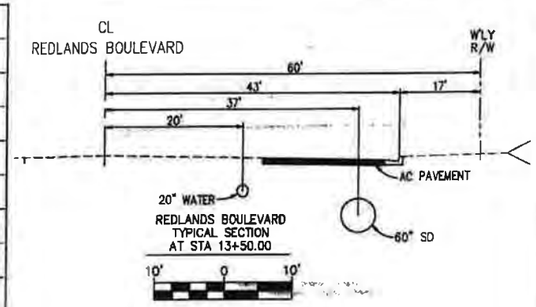
Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

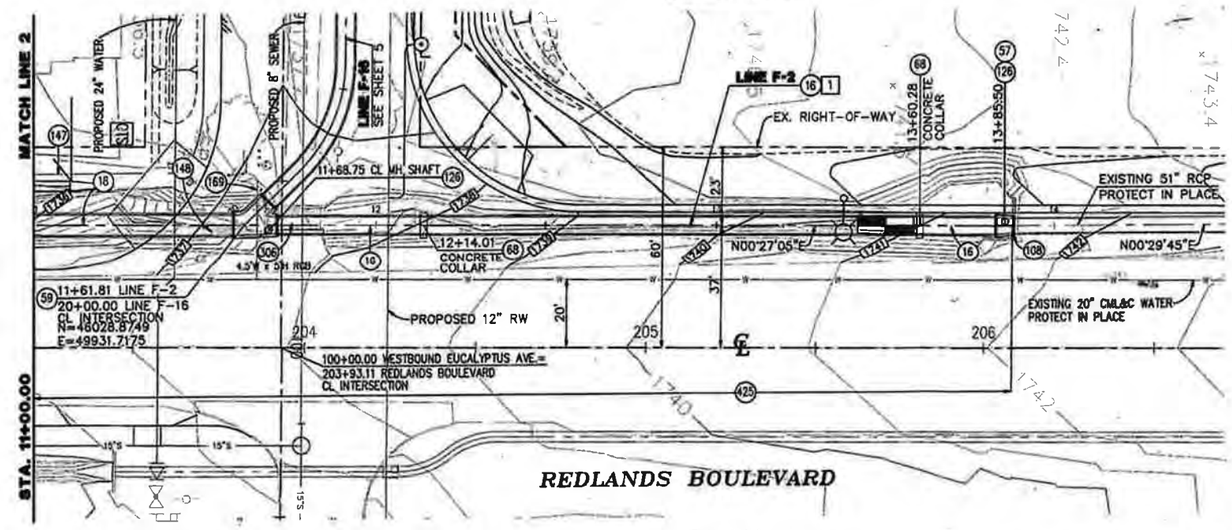


PROFILE



**NOTE:
THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES **OVER** REINFORCING FOR BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



PLAN

CONSTRUCTION NOTES

(16) INSTALL 60" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(57) CONSTRUCT MANHOLE No.2 PER R.C.F.C. & WCD STD. PLAN MH252
(59) CONSTRUCT MANHOLE No.4 PER R.C.F.C. & WCD STD. PLAN MH254
(68) CONSTRUCT CONCRETE COLLAR FOR RCP PER R.C.F.C. & WCD STD. PLAN M803
(108) REMOVE EXISTING HEADWALL STRUCTURE
(126) ADJUST MANHOLE RIM TO GRADE AFTER FINAL SURFACE HAS BEEN INSTALLED
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(148) PLUG EXISTING UTILITY AT LOCATION SHOWN (COORDINATE WITH OWNER OF UTILITY)
(169) LOWER OR RAISE EXISTING WATER LINE TO EMWD STANDARD SPECIFICATION TO CLEAR PROPOSED STORM DRAIN PIPING
(306) REMOVE EXISTING CULVERT
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL

MANHOLE DATA TABLE

S.D. MAINLINE STA.	STRUCTURE TYPE	LINE	ANGLE "A"	B	C	D1	D2	EL. S	EL. R
11+61.8	MH NO. 4	F-16	45°00'00"	60"	5.5'	66"	72"	1725.84	1725.86

COURSE DATA

	BEARING	DISTANCE
1	N00°27'05"E	553.17'

20 0 20

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PA08-0097 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA08-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA08-0022 CITY ID# 4898
RECOMMENDED BY: Hoangoc Cerda 3/5/14
for PRIEN KHADR
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52483 DATE
APPROVED BY: 3/10/14
ARNAUD R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51516 DATE

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PPRP AND MLPP BEING NORTH 53°20'11.0948" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NAVD29 DATUM)

REF.	REVISIONS	ENGINEER APPR.	ENGINEER DATE	RCFC/ APPR.	RCFC/ DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER No. 33366 EXPIRATION 6-30-2014 CIVIL STATE OF CALIFORNIA

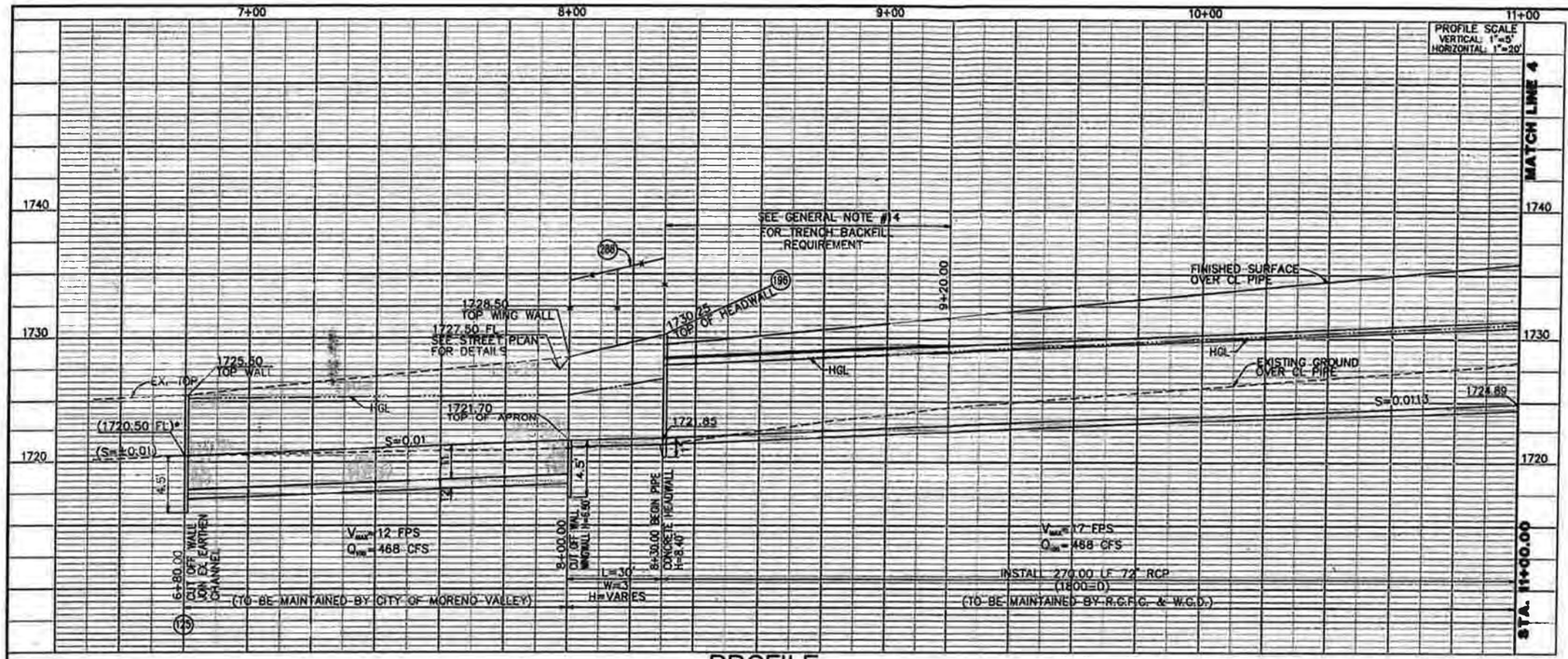
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 3/10/14

RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 3/7/14
APPROVED BY: DATE: 5/8/2014

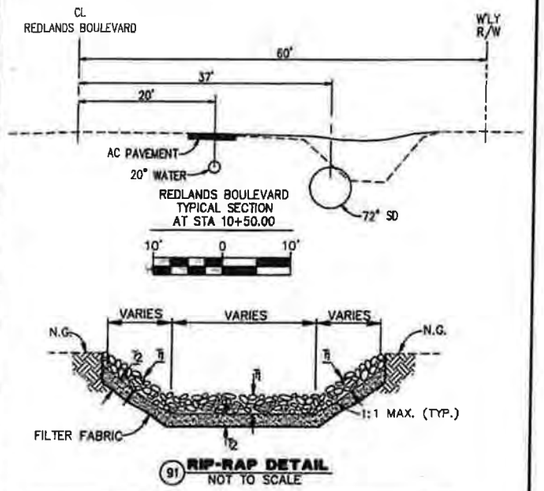
MORENO MDP LINE F-2
11+00.00 TO 13+87.83

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 4 OF 11

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



PROFILE

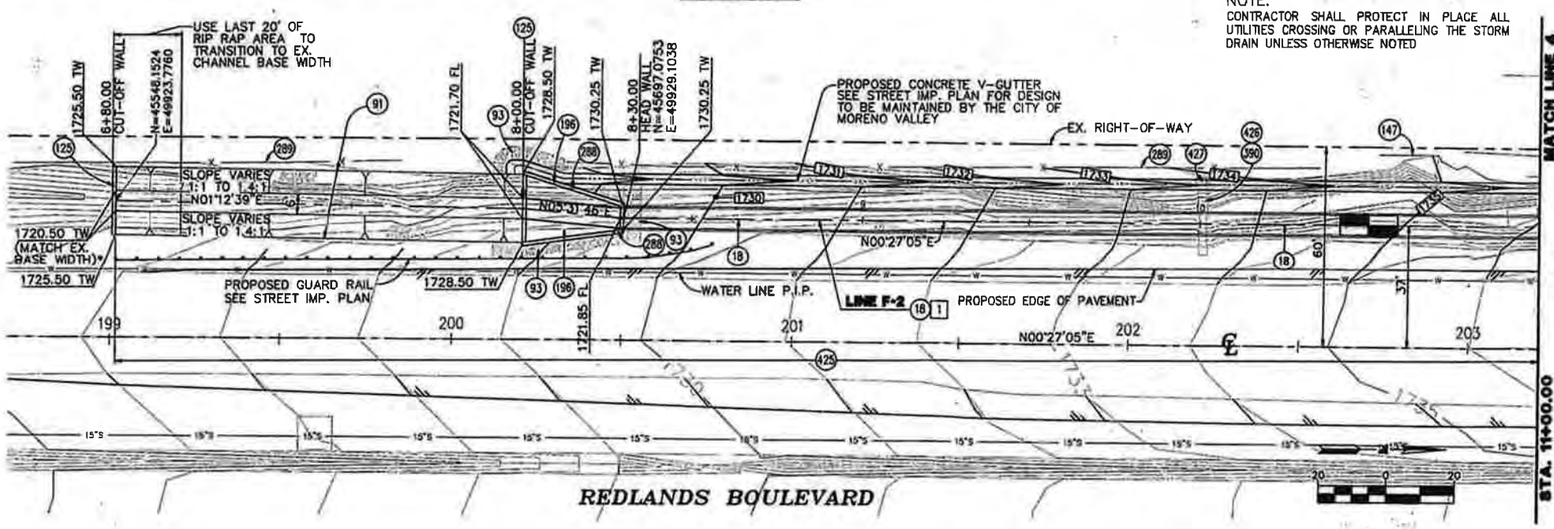


(91) **RIP-RAP DETAIL**
NOT TO SCALE

RIP-RAP DATA				
LOCATION	V_{AVG} (FPS)	T_1 (FT)	T_2 (FT)	CUTOFF WALL
LINE F-2 OUTLET	10-12	32" 1/4 TON	9" NO. 2 BACKING	54"

NOTES:
1. USE CALTRANS SPECIFICATIONS, SECTION 72-2.02 FOR ROCK SIZE BY RSP-CLASS AND MATERIAL PROPERTIES.
2. USE MIRAFI 1100N OR APPROVED EQUAL PER CALTRANS SECTION 88-1.04.
3. PLACEMENT METHOD TYPE B PER CALTRANS SPECIFICATIONS.
4. RIP-RAP LAYERING PER CALTRANS HIGHWAY DESIGN MANUAL TABLE 873.3 B.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



PLAN

CONSTRUCTION NOTES

(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(91) INSTALL GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS AND RIP-RAP DATA TABLE ON THIS SHEET
(93) INSTALL GROUTED RIP RAP PER DETAIL ON SHEET 6 TO BE MAINTAINED BY CITY OF MORENO VALLEY
(125) CONSTRUCT RIP RAP PCC CUT-OFF WALL PER DETAIL ON SHEET 2
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(196) INSTALL PIPE CULVERT HEADWALL, WINGWALL & APRON PER CALTRANS STANDARD PLAN D86-B (SEE SHEET 2 FOR LAYOUT DETAIL)
(288) INSTALL CHAIN LINK FENCE PER R.C.F.C. & W.C.D. STD. PLAN NO. M801
(289) REMOVE, SALVAGE & RE-INSTALL EXISTING FENCE ON R/W AFTER PROPOSED IMPROVEMENTS HAVE BEEN INSTALLED
(390) EXISTING CONCRETE APRON/ENCASEMENT TO BE REMOVED
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL
(426) RELOCATE, LOWER OR RAISE EXISTING UTILITY TO CLEAR PROPOSED STORM DRAIN (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)
(427) RELOCATE EXISTING UTILITY BOX AND APPURTENANCES (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)

COURSE DATA		
	BEARING	DISTANCE
1	N00°27'05"E	553.17'

PA08-0087 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA09-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA09-0022 CITY ID# 4866

RECOMMEND BY: Humayun 2/13/14
for PRIEN KHAN
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52461 DATE

APPROVED BY: 3/4/14
AHMAD R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51359 DATE

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PVEP AND MJP0 BEING NORTH 33°20'17.06" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NGVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER MAURICE H. MURAD NO. 33366 EXPIRATION 6-30-2014 STATE OF CALIFORNIA CIVIL

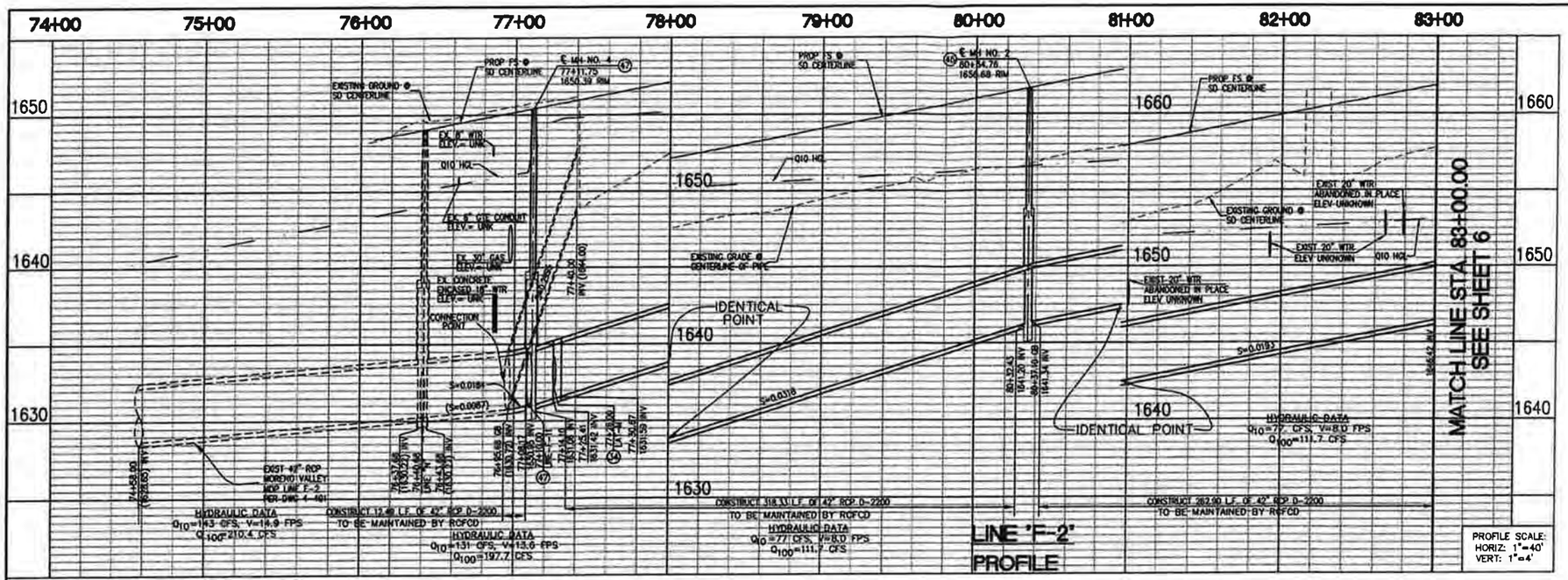
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 2/14/14

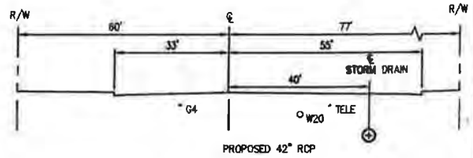
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 5/7/14
APPROVED BY: DATE: 5/8/2014

MORENO MDP LINE F-2
6+80.00 TO 11+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 3 OF 11

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley





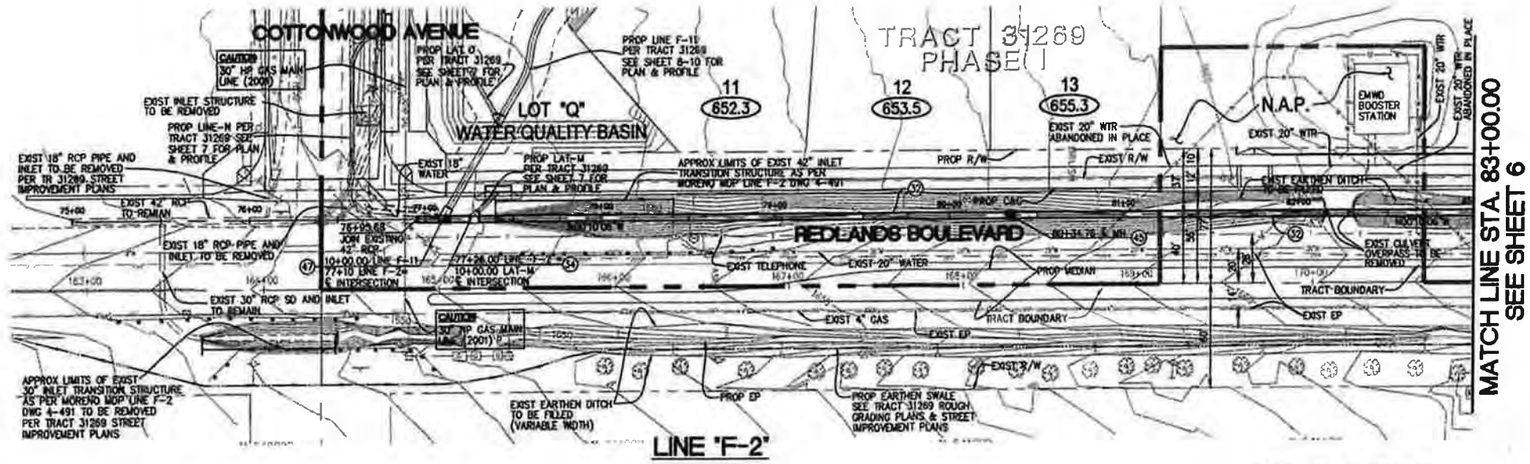
SECTION AT STATION 79+00.00

TYPICAL FROM STA. 76+95.68 TO STA. 91+10.00

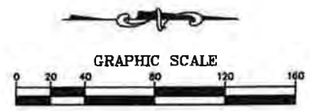
INFORMATIONAL NOTE

ALL X-SECTION TAKEN LOOKING DOWNSTREAM

DRACAEA AVE



LINE 'F-2' PLAN



CONSTRUCTION NOTES

(32) CONSTRUCT 42" RCP (SEE PROFILE FOR D-LOAD)
(34) CONSTRUCT JUNCTION STRUCTURE NO.2 PER RCFCD STD DWG JS 227
(45) CONSTRUCT MANHOLE NO. 2 PER RCFCD STD DWG MH 252
(47) CONSTRUCT MANHOLE NO. 4 PER RCFCD STD DWG MH 254

AS BUILT

APPROVED BY: [signature]

DATE 4-24-08

STORM DRAIN NOTES:

1. EXISTING MORENO VALLEY MDP LINE-F2 IS DESIGNED TO CONVEY ONLY THE 10-YR STORM EVENT. THEREFORE THE HGL FOR THE 10-YR STORM EVENT IS SHOWN FOR MDP LINE F-11, MDP LINE F-12, AND AND ALL IN-TRACT STORM DRAIN. THE 100-YR STORM EVENT IS CONTAINED WITH-IN THE STREET R/W
2. FOR ALL STREET CATCH BASIN(S) AND DEPRESSION(S) SEE TRACT 31269 STREET IMPROVEMENT PLANS .

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

F.D BRASS DISK SET IN CONCRETE "M-40-4 RESET 1976" PER RIVERSIDE COUNTY RECORDS. LOCATED ON THE SOUTHEAST CORNER OF ALESSANDRO BLVD. AND NASON STREET AND IT IS 3 FEET WESTERLY OF POWER POLE NUMBER GT70306.
ELEVATION: 1588.421

REF.	REVISIONS / DESCRIPTION	ENGINEER APPR.	ENGINEER DATE	RCFC/ APPR.	RCFC/ DATE

DESIGNED BY: F.M.
DRAWN BY: P.B.
DATE DRAWN: 05/04

REGISTERED PROFESSIONAL ENGINEER RANDAL L. STREETER No. 23083 EXP. 12/31/05 CIVIL STATE OF CALIFORNIA

ADAMS • STREETER CIVIL ENGINEERS, INC.

PREPARED UNDER THE SUPERVISION OF: RANDAL L. STREETER EXP. 12/31/05 R.C.E. NO. 23083 DATE: 2/5/05

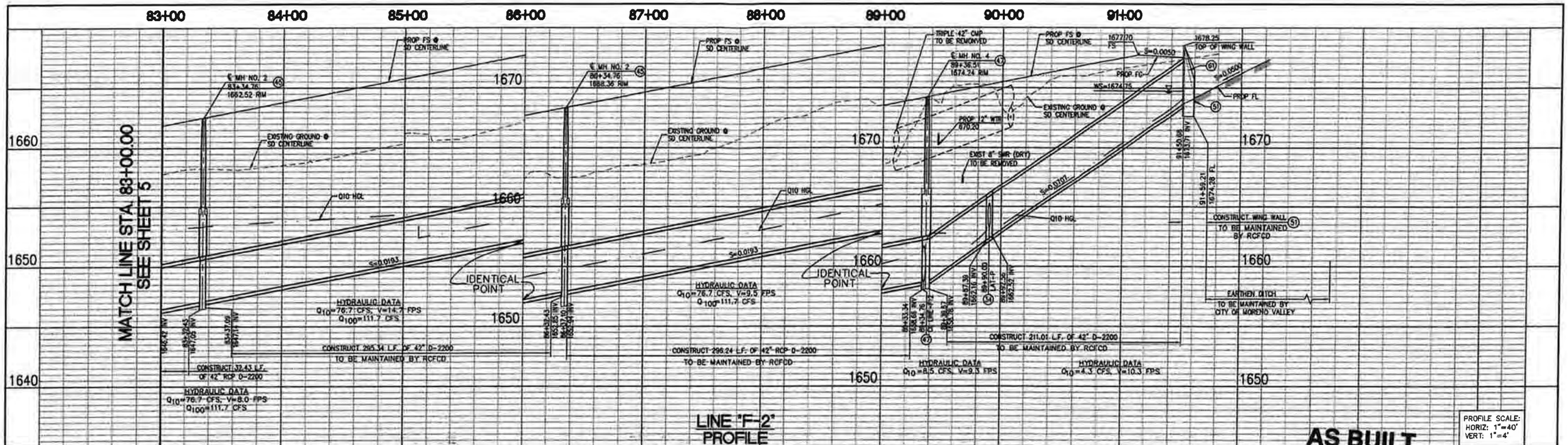
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATED: 8/3/05
APPROVED BY: DATE: 8-4-2005

CITY OF MORENO VALLEY PUBLIC WORKS DEPARTMENT
APPROVED BY: TRENT O. PULLIAM DATE: 3/25/05
RECOMMENDED DATE:

MORENO MASTER DRAINAGE PLAN
LINE "F-2"
STA. 75+00.00 TO 83+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 04-847
SHEET NO. 5 OF 14

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

F.D BRASS DISK SET IN CONCRETE "M-40-6 RESET 1978" PER RIVERSIDE COUNTY RECORDS. LOCATED ON THE SOUTHEAST CORNER OF ALESSANDRO BLVD. AND MASON STREET AND IT IS 3 FEET WESTERLY OF POWER POLE NUMBER G170306.

ELEVATION: 1588.421

REF.	REVISIONS	DESCRIPTION	ENGINEER APPR.	DATE	RCFC/ APPR.	DATE

DESIGNED BY: F.M.
DRAWN BY: P.B.
DATE DRAWN: 05/04

REGISTERED PROFESSIONAL ENGINEER RANDAL L. STREETER No. 25083 EXP. 12/31/05 CIVIL STATE OF CALIFORNIA

ADAMS • STREETER
CIVIL ENGINEERS, INC.
3502 Adams Street, Suite A-100
Riverside Ca. 92504
PHONE 951-351-7555 FAX 951-351-8399
mail@adams-streeter.com

PREPARED UNDER THE SUPERVISION OF: RANDAL L. STREETER R.C.E. NO. 25083 DATE: 2/5/08
EXP. 12/31/05

RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 8/8/05
APPROVED BY: DATE: 8-4-2005

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT
APPROVED BY: TRENT D. FULLIAM DATE: 3/25/05
RECOMMENDED DATE:

BY MORENO MASTER DRAINAGE PLAN
STORM DRAIN LINE F-2
STA. 83+00.00 TO 91+10.00

PROJECT NO. 4-0-00400
DRAWING NO. 04-847
SHEET NO. 6 OF 14

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

JASON E. UHLEY
General Manager-Chief Engineer

1995 MARKET STREET
RIVERSIDE, CA 92501
951.955.1200
951.788.9965 FAX
www.rcflood.org

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
December 23, 2020

Mr. Michael D Lloyd
Assistant City Engineer
Engineering Division
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Dear Mr. Lloyd:

Re: Thienes Engineering PEN 19-0193
Account No. 137-0-3-75325

As requested by the City of Moreno Valley (City), the Riverside County Flood Control District (District) received the following for review on December 1, 2020:

1. Letter from Moreno Valley, dated November 12, 2020
2. Preliminary Hydrology Calculations, dated October 27, 2020
3. Preliminary Grading Plan (13 sheets, with different dates)
4. PWQMP Report, dated March 5, 2020

The District has reviewed these documents as requested in the City's letter, and has also tried to identify potential areas of concern, and has the following comments:

Line-16

The City stated in their request that the developer wished to "eliminate the proposed westerly portion of Moreno Master Drainage Plan (MMDP) Line F-16 based on the premise that it is unnecessary to construct due to the existing development to the north of the MMDP line." The existing development (PM36207 on APN 488-330-040) constructed a basin which outlets to a pipe in Eucalyptus Avenue which connect to Line F-2 in Redland Boulevard. The pipe was previously accepted for maintenance by the District. Since the pipe and basin together collect and convey the same area that was tabled to Line F-16, it is our opinion that, so long as the basin is in place, the existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection.

Line F-17

The City stated in their request that the developer wished to "eliminate the proposed MMDP Line F-17, based on the premise that it is unnecessary to construct due to the proposed developer's water quality and detention facilities." The Moreno MDP proposed Line F-17 as a 42 to 60 inch RCP conveying 200 cfs to Line F-2. The developer proposed an onsite basin and a 42" HDPE within the development conveying on site flows to Line F-2, and a catch basin in Encelia conveying street runoff to Line F-2. Since these facilities together collect and convey the same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17.

It should be noted that since the proposed pipe is within private right of way and is proposed as HDPE, the District will not maintain it. The basin and storm drain facility will be developer maintained. However, if the design is modified to meet District standards, a public agency could maintain the storm drain and/or basin. At a minimum, the storm drain would need to be moved to the street and constructing with RCP instead of HDPE, and the basin would need to handle water quality and the 100-year route down separately and otherwise be designed to meet out meet District requirements for Operation and Maintenance. See increased runoff criteria and the LID BMP handbook for basin design requirements. Link: http://rcflood.org/npdes/LIDBMP.aspx

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

City of Moreno Valley
Re: Thienes Engineering PEN 19-0193, Account No. 137-0-3-7535

235845

Also note that Line F-17 is not part of the Moreno Area Drainage Plan (ADP) and therefore is not eligible for ADP credit.

Line F-2

The developer is proposing to build a portion of Line F-2 in Redlands Avenue. The MMDP proposed Line F-2 between Eucalyptus and Encelia as a 72" RCP conveying 100-year flowrate of 535 cfs. The developer's plans don't provide details for their proposed segment of Line F-2, or even the limits of what they will be constructing, but the hydrology map identifies it as a 72" RCP. The District has not received enough information to comment on this facility. It should be noted that the existing portion of Line F-2 downstream of this project is not sized to convey the 100 year flowrate, and the MMDP proposes that it will be improved or replaced in the future to increase the current 10-year capacity to the 100 year storm.

Quincy Channel / Line G-7

The developer is proposing vinyl sheetpile along the natural Quincy wash, which the MMDP proposes as a trapezoidal channel called Line G-7. The sheetpile is proposed some distance outside of the limits of the MMDP proposed channel. While the sheetpile may protect the site from erosion, the capacity of the existing wash is unknown. The site may not be protected from the 100-year storm until the ultimate channel is constructed or erosion occurs, and therefore may not be functionally equivalent in the interim. Additionally, it should be noted that the District will not maintain the proposed sheet piles.

Hydrology Report

The City should be aware of the following District comments on the developer's hydrology study dated October 27, 2020.

1. The rainfall used should be consistent with those used in the Moreno MDP, which were based on the version of NOAA Atlas 14 that was available when the MMDP was updated. The MMDP report provides a table of rainfall values used.
2. The cover type used for node 200-204 "proposed" hydrology should be commercial cover or some other type with a high impervious percentage, since this area is proposed as a street.
3. AMC 3 was used for the 100-year basin hydrology. This is not typically recommended per the District's hydrology manual. This should be explained or corrected.

Any questions pertaining to this project may be directed to Kelly O'Sullivan of this office at 951-955-8851 or kosulliv@rivco.org.

Very truly yours,

Deborah de Chambeau

DEBORAH DE CHAMBEAU
Engineering Project Manager

cc: Kelly O'Sullivan, RCFC&WCD
Duke Aghaian, Thienes Engineering

SLJ:se

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX B

HYDROLOGY CALCULATIONS

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
******************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
       RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 100-107)                                  *
 **********************************************************************

  FILE NAME: W:\3828\100XX.DAT
  TIME/DATE OF STUDY: 08:36 03/25/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH POOR COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   410.00
  UPSTREAM ELEVATION(FEET) =   1752.00
  DOWNSTREAM ELEVATION(FEET) =   1741.50
  ELEVATION DIFFERENCE(FEET) =     10.50
  TC = 0.533*[(  410.00**3)/(    10.50)]**.2 =   12.298
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.651
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6451
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      4.87
  TOTAL AREA(ACRES) =      2.85   TOTAL RUNOFF(CFS) =      4.87

******************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1741.50  DOWNSTREAM(FEET) =   1732.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   400.00   CHANNEL SLOPE =  0.0237
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.186
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6085
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.84
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.15
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   5.78
  Tc(MIN.) =   18.08
  SUBAREA AREA(ACRES) =     4.40       SUBAREA RUNOFF(CFS) =    5.85
  TOTAL AREA(ACRES) =        7.2         PEAK FLOW RATE(CFS) =      10.73

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.36
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     810.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  51
------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
==============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1732.00  DOWNSTREAM(FEET) =   1722.60
  CHANNEL LENGTH THRU SUBAREA(FEET) =   410.00   CHANNEL SLOPE =  0.0229
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.900
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.957
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5862
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      16.05
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.52
  AVERAGE FLOW DEPTH(FEET) =   0.10   TRAVEL TIME(MIN.) =   4.50
  Tc(MIN.) =   22.57
  SUBAREA AREA(ACRES) =     9.25       SUBAREA RUNOFF(CFS) =   10.61
  TOTAL AREA(ACRES) =       16.5         PEAK FLOW RATE(CFS) =      21.34

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.12   FLOW VELOCITY(FEET/SEC.) =   1.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    1220.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  61
------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
==============================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1722.00
  STREET LENGTH(FEET) =   275.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      21.87
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.73
    HALFSTREET FLOOD WIDTH(FEET) =   28.63
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.61
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.91
  STREET FLOW TRAVEL TIME(MIN.) =   1.76   Tc(MIN.) =   24.33
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.885
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8678
  SOIL CLASSIFICATION IS "B"
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                100XX
  SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.06
  TOTAL AREA(ACRES) =       17.1        PEAK FLOW RATE(CFS) =      22.40

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.74   HALFSTREET FLOOD WIDTH(FEET) =  28.87
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.93
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1495.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1722.00  DOWNSTREAM ELEVATION(FEET) = 1715.80
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      22.93
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.66
    HALFSTREET FLOOD WIDTH(FEET) =   24.94
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.52   Tc(MIN.) =   27.85
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    1.07
  TOTAL AREA(ACRES) =       17.9        PEAK FLOW RATE(CFS) =      23.47

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.66   HALFSTREET FLOOD WIDTH(FEET) =  25.12
  FLOW VELOCITY(FEET/SEC.) =  3.61   DEPTH*VELOCITY(FT*FT/SEC.) =   2.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    2250.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   17.25   SUBAREA RUNOFF(CFS) =   26.33
  TOTAL AREA(ACRES) =       35.1   TOTAL RUNOFF(CFS) =      49.80
  TC(MIN.) =   27.85

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1715.80  DOWNSTREAM ELEVATION(FEET) = 1709.80
  STREET LENGTH(FEET) =   620.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      50.24
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.58
    SPLIT DEPTH(FEET) =    0.35   SPLIT FLOOD WIDTH(FEET) =    9.53
```

```
    SPLIT FLOW(CFS) =    2.48   SPLIT VELOCITY(FEET/SEC.) =    2.26
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.65
  STREET FLOW TRAVEL TIME(MIN.) =   2.26   Tc(MIN.) =   30.10
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.88
  TOTAL AREA(ACRES) =       35.7        PEAK FLOW RATE(CFS) =      50.68

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.58   DEPTH*VELOCITY(FT*FT/SEC.) =   3.65
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    2870.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   21.50   SUBAREA RUNOFF(CFS) =   31.53
  TOTAL AREA(ACRES) =       57.2   TOTAL RUNOFF(CFS) =      82.21
  TC(MIN.) =   30.10

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1709.80  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   445.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      82.64
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.30
    SPLIT DEPTH(FEET) =    0.76   SPLIT FLOOD WIDTH(FEET) =   29.98
    SPLIT FLOW(CFS) =   37.78   SPLIT VELOCITY(FEET/SEC.) =    4.12
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.30
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.43
  STREET FLOW TRAVEL TIME(MIN.) =   1.72   Tc(MIN.) =   31.83
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.86
  TOTAL AREA(ACRES) =       57.8        PEAK FLOW RATE(CFS) =      83.06

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.30   DEPTH*VELOCITY(FT*FT/SEC.) =   3.43
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    3315.00 FEET.
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   16.00   SUBAREA RUNOFF(CFS) =   22.80
  TOTAL AREA(ACRES) =       73.8   TOTAL RUNOFF(CFS) =     105.87
  TC(MIN.) =   31.83

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.80   SUBAREA RUNOFF(CFS) =    2.57
  TOTAL AREA(ACRES) =       75.6   TOTAL RUNOFF(CFS) =     108.43
  TC(MIN.) =   31.83
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       75.6  TC(MIN.) =     31.83
  PEAK FLOW RATE(CFS)   =     108.43
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 110-112)                                  *
 **********************************************************************

  FILE NAME: W:\3828\110XX.DAT
  TIME/DATE OF STUDY: 09:40 03/25/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   875.00
  UPSTREAM ELEVATION(FEET) =   1755.15
  DOWNSTREAM ELEVATION(FEET) =   1747.00
  ELEVATION DIFFERENCE(FEET) =      8.15
  TC = 0.303*[(  875.00**3)/(     8.15)]**.2 =   11.603
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.729
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8750
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.39
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.39

**************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

110XX

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1747.00  DOWNSTREAM ELEVATION(FEET) = 1737.88
  STREET LENGTH(FEET) =   875.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  19.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.31
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   10.68
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.92
  STREET FLOW TRAVEL TIME(MIN.) =   5.86   Tc(MIN.) =   17.47
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.224
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8712
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.95      SUBAREA RUNOFF(CFS) =    1.84
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.23

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  11.95
  FLOW VELOCITY(FEET/SEC.) =  2.61   DEPTH*VELOCITY(FT*FT/SEC.) =   1.04
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =    1750.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     17.47
  PEAK FLOW RATE(CFS)   =       4.23
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
******************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 120-121)                                  *
 **********************************************************************

  FILE NAME: W:\3828\120XX.DAT
  TIME/DATE OF STUDY: 10:39 03/25/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   390.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1734.82
  ELEVATION DIFFERENCE(FEET) =      5.18
  TC = 0.303*[(  390.00**3)/(     5.18)]**.2 =    7.823
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.324
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8784
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.61
  TOTAL AREA(ACRES) =      0.55   TOTAL RUNOFF(CFS) =      1.61
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.6  TC(MIN.) =      7.82
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

120XX

PEAK FLOW RATE(CFS) = 1.61

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 130-131)                                  *
 ************************************************************************

  FILE NAME: W:\3828\130XX.DAT
  TIME/DATE OF STUDY: 11:50 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   175.00
  UPSTREAM ELEVATION(FEET) =   1737.80
  DOWNSTREAM ELEVATION(FEET) =   1734.83
  ELEVATION DIFFERENCE(FEET) =      2.97
  TC = 0.303*[(  175.00**3)/(     2.97)]**.2 =    5.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8813
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      0.88
  TOTAL AREA(ACRES) =      0.25   TOTAL RUNOFF(CFS) =      0.88
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.41
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

130XX

PEAK FLOW RATE(CFS) = 0.88

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
            RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
         RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                       (RCFC&WCD)  1978 HYDROLOGY MANUAL
          (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                       (Rational Tabling Version 23.0)
                  Release Date: 07/01/2016  License ID 1435

                            Analysis prepared by:

                          THIENES ENGINEERING, INC.
                             14349 FIRESTONE BLVD
                             LA MIRIADA, CA 90638
                                 714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                     *
* PROPOSED CONDITIONS                                                     *
* 100-YEAR STORM EVENT                                                    *
 ****************************************************************************

  FILE NAME: W:\3828\P100.DAT
  TIME/DATE OF STUDY: 09:52 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   620.00
  UPSTREAM ELEVATION(FEET) =   1754.90
  DOWNSTREAM ELEVATION(FEET) =   1727.54
  ELEVATION DIFFERENCE(FEET) =     27.36
  TC = 0.303*[(  620.00**3)/(    27.36)]**.2 =    7.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.416
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8789
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =     18.29
  TOTAL AREA(ACRES) =      6.09   TOTAL RUNOFF(CFS) =     18.29

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.00  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =   193.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.31
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      18.29
  PIPE TRAVEL TIME(MIN.) =   0.75    Tc(MIN.) =    8.15
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     813.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.256
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8781
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.75
  TOTAL AREA(ACRES) =        8.1   TOTAL RUNOFF(CFS) =      24.03
  TC(MIN.) =    8.15

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1723.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      24.03
  PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =    8.59
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     963.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.172
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8777
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.60
  TOTAL AREA(ACRES) =       10.1   TOTAL RUNOFF(CFS) =      29.63
  TC(MIN.) =    8.59

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.22  DOWNSTREAM(FEET) =  1722.57
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.88
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.63
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    8.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1113.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.107
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8773
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.48
  TOTAL AREA(ACRES) =       12.1   TOTAL RUNOFF(CFS) =      35.11
  TC(MIN.) =    8.95

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.57  DOWNSTREAM(FEET) =  1721.94
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.94
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.11
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.31
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1263.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.046
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8770
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.25
  TOTAL AREA(ACRES) =       13.7   TOTAL RUNOFF(CFS) =      39.36
  TC(MIN.) =    9.31

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.94  DOWNSTREAM(FEET) =  1721.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.68
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      39.36
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    9.64
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1413.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.994
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8767
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.00   SUBAREA RUNOFF(CFS) =    5.25
  TOTAL AREA(ACRES) =       15.7   TOTAL RUNOFF(CFS) =      44.61
  TC(MIN.) =    9.64

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.22  DOWNSTREAM(FEET) =  1720.51
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.78
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      44.61
  PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    9.96
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    1563.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.946
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8764
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.19
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      49.79
  TC(MIN.) =    9.96
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.51  DOWNSTREAM(FEET) =  1719.76
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      49.79
  PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =   10.27
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1713.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.901
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8761
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.04
  TOTAL AREA(ACRES) =       19.3   TOTAL RUNOFF(CFS) =      53.84
  TC(MIN.) =   10.27

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    109.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.76  DOWNSTREAM(FEET) =  1719.01
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.38
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.84
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.57
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    109.00 =    1863.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    109.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.860
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8759
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.02   SUBAREA RUNOFF(CFS) =    5.06
  TOTAL AREA(ACRES) =       21.3   TOTAL RUNOFF(CFS) =      58.89
  TC(MIN.) =   10.57

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.01  DOWNSTREAM(FEET) =  1718.27
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.41
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      58.89
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.87
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =    2013.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    110.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.820
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8756
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.41   SUBAREA RUNOFF(CFS) =   10.89
  TOTAL AREA(ACRES) =       25.7   TOTAL RUNOFF(CFS) =      69.78
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  TC(MIN.) =   10.87

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1718.27  DOWNSTREAM(FEET) =  1712.62
  FLOW LENGTH(FEET) =   758.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  29.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      69.78
  PIPE TRAVEL TIME(MIN.) =   1.23    Tc(MIN.) =   12.09
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2771.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    3.27   SUBAREA RUNOFF(CFS) =    7.65
  TOTAL AREA(ACRES) =       29.0   TOTAL RUNOFF(CFS) =      77.43
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.68   SUBAREA RUNOFF(CFS) =    1.59
  TOTAL AREA(ACRES) =       29.7   TOTAL RUNOFF(CFS) =      79.02
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.62  DOWNSTREAM(FEET) =  1708.53
  FLOW LENGTH(FEET) =   381.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.28
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      79.02
  PIPE TRAVEL TIME(MIN.) =   0.52    Tc(MIN.) =   12.61
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =    3152.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.87   SUBAREA RUNOFF(CFS) =    4.28
  TOTAL AREA(ACRES) =       31.6   TOTAL RUNOFF(CFS) =      83.30
  TC(MIN.) =   12.61

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.20   SUBAREA RUNOFF(CFS) =    5.04
  TOTAL AREA(ACRES) =       33.8   TOTAL RUNOFF(CFS) =      88.34
  TC(MIN.) =   12.61
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.53  DOWNSTREAM(FEET) =  1707.12
  FLOW LENGTH(FEET) =   285.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  36.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.27
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.34
  PIPE TRAVEL TIME(MIN.) =   0.51    Tc(MIN.) =   13.12
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3437.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.566
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.24   SUBAREA RUNOFF(CFS) =    0.54
  TOTAL AREA(ACRES) =       34.0   TOTAL RUNOFF(CFS) =      88.87
  TC(MIN.) =   13.12

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1707.12  DOWNSTREAM(FEET) =  1706.91
  FLOW LENGTH(FEET) =    41.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.43
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.87
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.20
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    3478.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.559
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.22   SUBAREA RUNOFF(CFS) =    4.96
  TOTAL AREA(ACRES) =       36.2   TOTAL RUNOFF(CFS) =      93.84
  TC(MIN.) =   13.20

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    115.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.91  DOWNSTREAM(FEET) =  1706.46
  FLOW LENGTH(FEET) =    90.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.62
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      93.84
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   13.35
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =    3568.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.544
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8738
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.76
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  TOTAL AREA(ACRES) =       37.9   TOTAL RUNOFF(CFS) =      97.60
  TC(MIN.) =   13.35

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.46  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  35.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.94
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      97.60
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =   13.40
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   364.00
  UPSTREAM ELEVATION(FEET) =   1731.47
  DOWNSTREAM ELEVATION(FEET) =   1729.87
  ELEVATION DIFFERENCE(FEET) =      1.60
  TC = 0.303*[(  364.00**3)/(     1.60)]**.2 =    9.493
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.017
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8768
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.94
  TOTAL AREA(ACRES) =      1.11   TOTAL RUNOFF(CFS) =      2.94

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1725.87  DOWNSTREAM(FEET) =  1724.98
  FLOW LENGTH(FEET) =   368.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.08
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.94
  PIPE TRAVEL TIME(MIN.) =   1.99    Tc(MIN.) =   11.49
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     732.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.743
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8751
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.03   SUBAREA RUNOFF(CFS) =    2.47
  TOTAL AREA(ACRES) =        2.1   TOTAL RUNOFF(CFS) =       5.41
  TC(MIN.) =   11.49

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.98  DOWNSTREAM(FEET) =  1723.86
  FLOW LENGTH(FEET) =   224.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.79
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.41
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =   12.26
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     956.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.655
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.69   SUBAREA RUNOFF(CFS) =    1.60
  TOTAL AREA(ACRES) =        2.8   TOTAL RUNOFF(CFS) =       7.01
  TC(MIN.) =   12.26

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.86  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =    44.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.69
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.01
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   12.42
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    1000.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.638
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8744
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.27   SUBAREA RUNOFF(CFS) =    9.85
  TOTAL AREA(ACRES) =        7.1   TOTAL RUNOFF(CFS) =      16.86
  TC(MIN.) =   12.42

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1722.94
  FLOW LENGTH(FEET) =   143.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.19
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      16.86
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   12.81
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =    1143.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.598
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.86
  TOTAL AREA(ACRES) =        8.8   TOTAL RUNOFF(CFS) =      20.72
  TC(MIN.) =   12.81

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    206.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.94  DOWNSTREAM(FEET) =  1722.75
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW LENGTH(FEET) =    40.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.43
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.72
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   12.91
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    206.00 =    1183.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    206.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.587
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.58
  TOTAL AREA(ACRES) =        9.5   TOTAL RUNOFF(CFS) =      22.30
  TC(MIN.) =   12.91

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.75  DOWNSTREAM(FEET) =  1722.22
  FLOW LENGTH(FEET) =   106.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.63
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      22.30
  PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =   13.18
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    207.00 =    1289.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    207.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.561
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    3.00
  TOTAL AREA(ACRES) =       10.8   TOTAL RUNOFF(CFS) =      25.30
  TC(MIN.) =   13.18

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.22  DOWNSTREAM(FEET) =  1721.63
  FLOW LENGTH(FEET) =   117.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.99
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.30
  PIPE TRAVEL TIME(MIN.) =   0.28    Tc(MIN.) =   13.46
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    208.00 =    1406.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.534
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8737
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.55
  TOTAL AREA(ACRES) =       11.5   TOTAL RUNOFF(CFS) =      26.85
  TC(MIN.) =   13.46

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.63  DOWNSTREAM(FEET) =  1721.50
  FLOW LENGTH(FEET) =    28.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.81
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.85
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.52
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    209.00 =    1434.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.528
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8736
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.73
  TOTAL AREA(ACRES) =       13.2   TOTAL RUNOFF(CFS) =      30.59
  TC(MIN.) =   13.52

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.50  DOWNSTREAM(FEET) =  1720.78
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.32
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.59
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =   13.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =    1579.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.498
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.92
  TOTAL AREA(ACRES) =       14.6   TOTAL RUNOFF(CFS) =      33.51
  TC(MIN.) =   13.85

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.78  DOWNSTREAM(FEET) =  1720.16
  FLOW LENGTH(FEET) =    51.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      33.51
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   13.94
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    211.00 =    1630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.490
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       15.3   TOTAL RUNOFF(CFS) =      35.03
  TC(MIN.) =   13.94

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.16  DOWNSTREAM(FEET) =  1719.04
  FLOW LENGTH(FEET) =    94.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.23
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.03
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =   14.09
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    212.00 =    1724.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.477
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8732
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.68
  TOTAL AREA(ACRES) =       17.0   TOTAL RUNOFF(CFS) =      38.71
  TC(MIN.) =   14.09

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.04  DOWNSTREAM(FEET) =  1717.49
  FLOW LENGTH(FEET) =   136.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.55
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      38.71
  PIPE TRAVEL TIME(MIN.) =   0.21    Tc(MIN.) =   14.30
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    213.00 =    1860.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.458
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      40.23
  TC(MIN.) =   14.30

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.49  DOWNSTREAM(FEET) =  1717.36
  FLOW LENGTH(FEET) =    15.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.36
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      40.23
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =   14.33
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    214.00 =    1875.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.456
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.64
  TOTAL AREA(ACRES) =       19.4   TOTAL RUNOFF(CFS) =      43.88
  TC(MIN.) =   14.33

****************************************************************************
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW PROCESS FROM NODE    214.00 TO NODE    215.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.36  DOWNSTREAM(FEET) =  1714.31
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.54
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      43.88
  PIPE TRAVEL TIME(MIN.) =   0.18    Tc(MIN.) =   14.51
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    215.00 =    2020.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    215.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.441
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8730
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.86
  TOTAL AREA(ACRES) =       20.7   TOTAL RUNOFF(CFS) =      46.73
  TC(MIN.) =   14.51

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    216.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1714.31  DOWNSTREAM(FEET) =  1712.96
  FLOW LENGTH(FEET) =    64.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.62
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      46.73
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   14.59
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    216.00 =    2084.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.434
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.51
  TOTAL AREA(ACRES) =       21.4   TOTAL RUNOFF(CFS) =      48.24
  TC(MIN.) =   14.59

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.96  DOWNSTREAM(FEET) =  1711.30
  FLOW LENGTH(FEET) =    81.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.96
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      48.24
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.68
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    217.00 =    2165.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    217.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.426
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.68   SUBAREA RUNOFF(CFS) =    3.56
  TOTAL AREA(ACRES) =       23.1   TOTAL RUNOFF(CFS) =      51.80
  TC(MIN.) =   14.68
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    218.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1711.30  DOWNSTREAM(FEET) =  1708.20
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.39
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      51.80
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =   14.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    218.00 =    2310.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.78   SUBAREA RUNOFF(CFS) =    1.64
  TOTAL AREA(ACRES) =       23.9   TOTAL RUNOFF(CFS) =      53.44
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.82
  TOTAL AREA(ACRES) =       25.2   TOTAL RUNOFF(CFS) =      56.26
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.20  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    87.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.71
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      56.26
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.95
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       56.26    14.95       2.404       25.23
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       97.60    13.40       2.539       37.91
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1     148.03      13.40        2.539
      2     148.66      14.95        2.404
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     148.66   Tc(MIN.) =   14.95
  TOTAL AREA(ACRES) =       63.1

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    220.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.30  DOWNSTREAM(FEET) =  1702.77
  FLOW LENGTH(FEET) =   706.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  57.0 INCH PIPE IS  41.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.79
  ESTIMATED PIPE DIAMETER(INCH) =  57.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     148.66
  PIPE TRAVEL TIME(MIN.) =   1.09    Tc(MIN.) =   16.04
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    220.00 =    4304.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    220.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.321
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8720
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.96   SUBAREA RUNOFF(CFS) =    5.99
  TOTAL AREA(ACRES) =       66.1   TOTAL RUNOFF(CFS) =     154.66
  TC(MIN.) =   16.04
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       66.1  TC(MIN.) =     16.04
  PEAK FLOW RATE(CFS)   =     154.66
  *** PEAK FLOW RATE TABLE ***
         Q(CFS)   Tc(MIN.)
  1      154.34      14.49
  2      154.66      16.04
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
       RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
        (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 500-502)                                         *
 **********************************************************************

  FILE NAME: W:\3828\500P.DAT
  TIME/DATE OF STUDY: 08:59 03/22/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   860.00
  UPSTREAM ELEVATION(FEET) =   1754.80
  DOWNSTREAM ELEVATION(FEET) =   1749.00
  ELEVATION DIFFERENCE(FEET) =      5.80
  TC = 0.303*[(  860.00**3)/(     5.80)]**.2 =   12.291
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.652
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.43
  TOTAL AREA(ACRES) =      1.05   TOTAL RUNOFF(CFS) =      2.43

**************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

500P

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1748.80  DOWNSTREAM ELEVATION(FEET) = 1739.70
  STREET LENGTH(FEET) =   885.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.43
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.38
    HALFSTREET FLOOD WIDTH(FEET) =   10.89
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.94
  STREET FLOW TRAVEL TIME(MIN.) =   5.92   Tc(MIN.) =   18.21
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.179
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8708
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    1.99
  TOTAL AREA(ACRES) =        2.1        PEAK FLOW RATE(CFS) =       4.43

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  12.23
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.06
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1745.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.1  TC(MIN.) =     18.21
  PEAK FLOW RATE(CFS)   =       4.43
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 510-511)                                         *
 ************************************************************************

  FILE NAME: W:\3828\510P.DAT
  TIME/DATE OF STUDY: 09:09 03/22/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    510.00 TO NODE    511.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   395.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1736.25
  ELEVATION DIFFERENCE(FEET) =      3.75
  TC = 0.303*[(  395.00**3)/(     3.75)]**.2 =    8.409
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.206
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8778
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.81
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.81
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        1.0  TC(MIN.) =      8.41
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

510P

PEAK FLOW RATE(CFS) = 2.81

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
******************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
       RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
        (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 520-522)                                         *
 **********************************************************************

  FILE NAME: W:\3828\520P.DAT
  TIME/DATE OF STUDY: 09:29 03/22/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    520.00 TO NODE    521.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   755.00
  UPSTREAM ELEVATION(FEET) =   1737.10
  DOWNSTREAM ELEVATION(FEET) =   1724.20
  ELEVATION DIFFERENCE(FEET) =     12.90
  TC = 0.303*[(  755.00**3)/(    12.90)]**.2 =    9.688
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.987
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8766
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.49
  TOTAL AREA(ACRES) =      0.95   TOTAL RUNOFF(CFS) =      2.49

******************************************************************************
  FLOW PROCESS FROM NODE    521.00 TO NODE    522.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

520P

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1724.20  DOWNSTREAM ELEVATION(FEET) = 1696.30
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 43.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.69
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.33
    HALFSTREET FLOOD WIDTH(FEET) =    8.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.14
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.04   Tc(MIN.) =   12.72
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.606
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8742
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    2.39
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.88

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.35   HALFSTREET FLOOD WIDTH(FEET) =   9.57
  FLOW VELOCITY(FEET/SEC.) =  4.42   DEPTH*VELOCITY(FT*FT/SEC.) =   1.54
  LONGEST FLOWPATH FROM NODE    520.00 TO NODE    522.00 =    1510.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     12.72
  PEAK FLOW RATE(CFS)   =       4.88
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
______________________________________________________________________
**********************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRIADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                 *
* PROPOSED CONDITIONS                                                 *
* 100-YEAR STORM EVENT                                                *
 **********************************************************************

  FILE NAME: W:\3828\P600.DAT
  TIME/DATE OF STUDY: 12:18 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**********************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH GOOD COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   150.00
  UPSTREAM ELEVATION(FEET) =   1728.00
  DOWNSTREAM ELEVATION(FEET) =   1723.00
  ELEVATION DIFFERENCE(FEET) =      5.00
  TC = 0.937*[(  150.00**3)/(     5.00)]**.2 =   13.734
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.509
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6349
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.27
  TOTAL AREA(ACRES) =      0.80   TOTAL RUNOFF(CFS) =      1.27

**********************************************************************
  FLOW PROCESS FROM NODE    601.00 TO NODE    602.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1718.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.92
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.35
    HALFSTREET FLOOD WIDTH(FEET) =    9.46
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.77
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.62
  STREET FLOW TRAVEL TIME(MIN.) =   7.89   Tc(MIN.) =   21.63
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8691
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.30
  TOTAL AREA(ACRES) =        1.5        PEAK FLOW RATE(CFS) =       2.58

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  10.87
  FLOW VELOCITY(FEET/SEC.) =  1.88   DEPTH*VELOCITY(FT*FT/SEC.) =   0.71
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    602.00 =     990.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    602.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5905
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.40   SUBAREA RUNOFF(CFS) =    0.47
  TOTAL AREA(ACRES) =        1.9   TOTAL RUNOFF(CFS) =       3.05
  TC(MIN.) =   21.63

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    603.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1718.00  DOWNSTREAM ELEVATION(FEET) = 1712.50
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.62
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.41
    HALFSTREET FLOOD WIDTH(FEET) =   12.35
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.11
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.85
  STREET FLOW TRAVEL TIME(MIN.) =   6.64   Tc(MIN.) =   28.26
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.749
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8663
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.14
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =       4.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.42   HALFSTREET FLOOD WIDTH(FEET) =  13.13
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW VELOCITY(FEET/SEC.) =  2.19   DEPTH*VELOCITY(FT*FT/SEC.) =   0.92
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    603.00 =    1830.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    603.00 TO NODE    604.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1712.50  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.43
    HALFSTREET FLOOD WIDTH(FEET) =   13.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.40
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.02
  STREET FLOW TRAVEL TIME(MIN.) =   5.84   Tc(MIN.) =   34.11
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8643
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    1.10
  TOTAL AREA(ACRES) =        3.5        PEAK FLOW RATE(CFS) =       5.29

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.44   HALFSTREET FLOOD WIDTH(FEET) =  13.99
  FLOW VELOCITY(FEET/SEC.) =  2.46   DEPTH*VELOCITY(FT*FT/SEC.) =   1.08
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    604.00 =    2670.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    604.00 TO NODE    604.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5428
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.15   SUBAREA RUNOFF(CFS) =    1.86
  TOTAL AREA(ACRES) =        5.6   TOTAL RUNOFF(CFS) =       7.14
  TC(MIN.) =   34.11
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        5.6  TC(MIN.) =     34.11
  PEAK FLOW RATE(CFS)   =       7.14
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX C

DETENTION CALCULATIONS

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

HYDROGRAPH RESULTS

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49
100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

DETENTION BASIN STAGED STORAGE

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)
1706.80	0.00	124,765			
			25,132	25,132	0.58
1707.00	0.20	126,554			
			25,490	50,622	1.16
1707.20	0.40	128,350			
			25,850	76,472	1.76
1707.40	0.60	130,150			
			26,211	102,683	2.36
1707.60	0.80	131,960			
			26,573	129,256	2.97
1707.80	1.00	133,770			
			26,936	156,192	3.59
1708.00	1.20	135,590			
			27,301	183,493	4.21
1708.20	1.40	137,420			
			27,667	211,160	4.85
1708.40	1.60	139,250			
			28,034	239,194	5.49
1708.60	1.80	141,090			
			28,403	267,597	6.14
1708.80	2.00	142,935			
			28,773	296,369	6.80
1709.00	2.20	144,790			
			29,143	325,512	7.47
1709.20	2.40	146,640			
			29,514	355,026	8.15
1709.40	2.60	148,500			
			29,888	384,914	8.84
1709.60	2.80	150,375			
			30,263	415,176	9.53
1709.80	3.00	152,250			
			30,638	445,814	10.23
1710.00	3.20	154,130			
			31,015	476,829	10.95
1710.20	3.40	156,020			
			31,393	508,222	11.67
1710.40	3.60	157,910			
			31,772	539,994	12.40
1710.60	3.80	159,810			
			32,152	572,147	13.13
1710.80	4.00	161,714			
			32,534	604,681	13.88
1711.00	4.20	163,625			
			32,917	637,597	14.64
1711.20	4.40	165,540			
			33,300	670,897	15.40
1711.40	4.60	167,460			
			33,686	704,583	16.18
1711.60	4.80	169,400			

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX212.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.488)	0.227	0.025
2	0.17	4.30	0.258	(0.488)	0.232	0.026
3	0.25	5.00	0.300	(0.488)	0.270	0.030
4	0.33	5.00	0.300	(0.488)	0.270	0.030
5	0.42	5.80	0.348	(0.488)	0.313	0.035
6	0.50	6.50	0.390	(0.488)	0.351	0.039
7	0.58	7.40	0.444	(0.488)	0.399	0.044
8	0.67	8.60	0.516	(0.488)	0.464	0.052
9	0.75	12.30	0.738	0.488	(0.664)	0.249
10	0.83	29.10	1.745	0.488	(1.570)	1.257
11	0.92	6.80	0.408	(0.488)	0.367	0.041
12	1.00	5.00	0.300	(0.488)	0.270	0.030
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.9

Flood volume = Effective rainfall 0.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.34(In)
Total soil loss = 1.929(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 37696.1 Cubic Feet
Total soil loss = 84016.4 Cubic Feet

Peak flow rate of this hydrograph = 29.826(CFS)

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX212

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 7.5 15.0 22.5 30.0
0+ 5	0.0008	0.11	Q
0+10	0.0049	0.59	Q
0+15	0.0125	1.11	VQ
0+20	0.0222	1.41	|Q
0+25	0.0334	1.63	|VQ
0+30	0.0462	1.85	| Q
0+35	0.0608	2.13	| Q
0+40	0.0776	2.44	| Q
0+45	0.1028	3.65	| Q
0+50	0.1864	12.14	| V Q
0+55	0.3918	29.83	| V Q|
1+ 0	0.5836	27.85	| V Q |
1+ 5	0.6750	13.27	| Q |V |
1+10	0.7276	7.63	| Q | V |
1+15	0.7630	5.15	| Q | V |
1+20	0.7884	3.68	| Q | V |
1+25	0.8073	2.74	| Q | V |
1+30	0.8214	2.04	| Q | V |
1+35	0.8331	1.71	| Q | V |
1+40	0.8422	1.32	|Q | V |
1+45	0.8493	1.03	|Q | V|
1+50	0.8547	0.79	|Q | V|
1+55	0.8588	0.60	Q | V|
2+ 0	0.8626	0.54	Q | V|
2+ 5	0.8652	0.38	Q | V|
2+10	0.8653	0.02	Q | V|
2+15	0.8654	0.01	Q | V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX232

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX232.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.488)	0.112	0.012
2	0.17	1.30	0.125	(0.488)	0.112	0.012
3	0.25	1.10	0.106	(0.488)	0.095	0.011
4	0.33	1.50	0.144	(0.488)	0.130	0.014
5	0.42	1.50	0.144	(0.488)	0.130	0.014
6	0.50	1.80	0.173	(0.488)	0.155	0.017
7	0.58	1.50	0.144	(0.488)	0.130	0.014
8	0.67	1.80	0.173	(0.488)	0.155	0.017
9	0.75	1.80	0.173	(0.488)	0.155	0.017
10	0.83	1.50	0.144	(0.488)	0.130	0.014
11	0.92	1.60	0.154	(0.488)	0.138	0.015
12	1.00	1.80	0.173	(0.488)	0.155	0.017
13	1.08	2.20	0.211	(0.488)	0.190	0.021
14	1.17	2.20	0.211	(0.488)	0.190	0.021
15	1.25	2.20	0.211	(0.488)	0.190	0.021
16	1.33	2.00	0.192	(0.488)	0.173	0.019
17	1.42	2.60	0.250	(0.488)	0.225	0.025
18	1.50	2.70	0.259	(0.488)	0.233	0.026
19	1.58	2.40	0.230	(0.488)	0.207	0.023
20	1.67	2.70	0.259	(0.488)	0.233	0.026
21	1.75	3.30	0.317	(0.488)	0.285	0.032
22	1.83	3.10	0.298	(0.488)	0.268	0.030
23	1.92	2.90	0.278	(0.488)	0.250	0.028
24	2.00	3.00	0.288	(0.488)	0.259	0.029
25	2.08	3.10	0.298	(0.488)	0.268	0.030
26	2.17	4.20	0.403	(0.488)	0.363	0.040
27	2.25	5.00	0.480	(0.488)	0.432	0.048
28	2.33	3.50	0.336	(0.488)	0.302	0.034
29	2.42	6.80	0.653	0.488	(0.587)	0.164
30	2.50	7.30	0.701	0.488	(0.631)	0.212
31	2.58	8.20	0.787	0.488	(0.708)	0.299
32	2.67	5.90	0.566	0.488	(0.510)	0.078
33	2.75	2.00	0.192	(0.488)	0.173	0.019
34	2.83	1.80	0.173	(0.488)	0.155	0.017
35	2.92	1.80	0.173	(0.488)	0.155	0.017
36	3.00	0.60	0.058	(0.488)	0.052	0.006
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.4

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 0.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.68(In)
Total soil loss = 3.800(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 29270.2 Cubic Feet
Total soil loss = 165531.0 Cubic Feet

Peak flow rate of this hydrograph = 12.057(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0004	0.06	Q				
0+10	0.0024	0.29	Q				
0+15	0.0060	0.52	VQ				
0+20	0.0102	0.61	VQ				
0+25	0.0150	0.70	VQ				
0+30	0.0206	0.81	|Q				
0+35	0.0268	0.90	|Q				
0+40	0.0333	0.95	|Q				
0+45	0.0402	0.99	|QV				
0+50	0.0474	1.04	| Q				
0+55	0.0545	1.03	| QV				
1+ 0	0.0615	1.02	| QV				
1+ 5	0.0689	1.08	| Q V				
1+10	0.0772	1.20	| Q V				
1+15	0.0861	1.30	| Q V				
1+20	0.0953	1.33	| Q V				
1+25	0.1046	1.34	| Q V				
1+30	0.1145	1.44	| Q V				
1+35	0.1252	1.55	| Q V				
1+40	0.1360	1.58	| Q V				
1+45	0.1473	1.63	| Q V				
1+50	0.1596	1.79	| Q V				
1+55	0.1726	1.88	| Q V				
2+ 0	0.1855	1.88	| Q |V				
2+ 5	0.1985	1.89	| Q |V				
2+10	0.2121	1.97	| Q | V				
2+15	0.2275	2.24	| Q | V				
2+20	0.2450	2.54	| Q | V				
2+25	0.2663	3.09	| Q | V				
2+30	0.3051	5.63	| |Q V				
2+35	0.3699	9.40	| | Q | V				
2+40	0.4529	12.06	| | | Q V				
2+45	0.5235	10.24	| | Q |V				
2+50	0.5660	6.18	| Q | V				
2+55	0.5937	4.02	| Q | V				
3+ 0	0.6147	3.05	| Q | V				
3+ 5	0.6304	2.27	| Q | V				
3+10	0.6414	1.60	| Q | V				
3+15	0.6493	1.15	| Q | V				
3+20	0.6554	0.89	|Q | V				
3+25	0.6601	0.69	|Q | V				
3+30	0.6637	0.52	|Q | V				
3+35	0.6665	0.40	Q | V				
3+40	0.6687	0.32	Q | V				
3+45	0.6704	0.23	Q | V				
3+50	0.6713	0.14	Q | V				
3+55	0.6717	0.05	Q | V				
4+ 0	0.6718	0.02	Q | V				
4+ 5	0.6719	0.01	Q | V				
4+10	0.6719	0.01	Q | V				
4+15	0.6720	0.00	Q | V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX262.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

 Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.488)	0.062	0.007
2	0.17	0.60	0.083	(0.488)	0.075	0.008
3	0.25	0.60	0.083	(0.488)	0.075	0.008
4	0.33	0.60	0.083	(0.488)	0.075	0.008
5	0.42	0.60	0.083	(0.488)	0.075	0.008
6	0.50	0.70	0.097	(0.488)	0.087	0.010
7	0.58	0.70	0.097	(0.488)	0.087	0.010
8	0.67	0.70	0.097	(0.488)	0.087	0.010
9	0.75	0.70	0.097	(0.488)	0.087	0.010
10	0.83	0.70	0.097	(0.488)	0.087	0.010
11	0.92	0.70	0.097	(0.488)	0.087	0.010
12	1.00	0.80	0.110	(0.488)	0.099	0.011
13	1.08	0.80	0.110	(0.488)	0.099	0.011
14	1.17	0.80	0.110	(0.488)	0.099	0.011
15	1.25	0.80	0.110	(0.488)	0.099	0.011
16	1.33	0.80	0.110	(0.488)	0.099	0.011
17	1.42	0.80	0.110	(0.488)	0.099	0.011
18	1.50	0.80	0.110	(0.488)	0.099	0.011
19	1.58	0.80	0.110	(0.488)	0.099	0.011
20	1.67	0.80	0.110	(0.488)	0.099	0.011
21	1.75	0.80	0.110	(0.488)	0.099	0.011
22	1.83	0.80	0.110	(0.488)	0.099	0.011
23	1.92	0.80	0.110	(0.488)	0.099	0.011
24	2.00	0.90	0.124	(0.488)	0.112	0.012
25	2.08	0.80	0.110	(0.488)	0.099	0.011
26	2.17	0.90	0.124	(0.488)	0.112	0.012
27	2.25	0.90	0.124	(0.488)	0.112	0.012
28	2.33	0.90	0.124	(0.488)	0.112	0.012
29	2.42	0.90	0.124	(0.488)	0.112	0.012
30	2.50	0.90	0.124	(0.488)	0.112	0.012
31	2.58	0.90	0.124	(0.488)	0.112	0.012
32	2.67	0.90	0.124	(0.488)	0.112	0.012
33	2.75	1.00	0.138	(0.488)	0.124	0.014
34	2.83	1.00	0.138	(0.488)	0.124	0.014
35	2.92	1.00	0.138	(0.488)	0.124	0.014
36	3.00	1.00	0.138	(0.488)	0.124	0.014
37	3.08	1.00	0.138	(0.488)	0.124	0.014
38	3.17	1.10	0.152	(0.488)	0.137	0.015

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.152	(0.488)	0.137	0.015	
40	3.33	1.10	0.152	(0.488)	0.137	0.015	
41	3.42	1.20	0.166	(0.488)	0.149	0.017	
42	3.50	1.30	0.179	(0.488)	0.161	0.018	
43	3.58	1.40	0.193	(0.488)	0.174	0.019	
44	3.67	1.40	0.193	(0.488)	0.174	0.019	
45	3.75	1.50	0.207	(0.488)	0.186	0.021	
46	3.83	1.50	0.207	(0.488)	0.186	0.021	
47	3.92	1.60	0.221	(0.488)	0.199	0.022	
48	4.00	1.60	0.221	(0.488)	0.199	0.022	
49	4.08	1.70	0.235	(0.488)	0.211	0.023	
50	4.17	1.80	0.248	(0.488)	0.224	0.025	
51	4.25	1.90	0.262	(0.488)	0.236	0.026	
52	4.33	2.00	0.276	(0.488)	0.248	0.028	
53	4.42	2.10	0.290	(0.488)	0.261	0.029	
54	4.50	2.10	0.290	(0.488)	0.261	0.029	
55	4.58	2.20	0.304	(0.488)	0.273	0.030	
56	4.67	2.30	0.317	(0.488)	0.286	0.032	
57	4.75	2.40	0.331	(0.488)	0.298	0.033	
58	4.83	2.40	0.331	(0.488)	0.298	0.033	
59	4.92	2.50	0.345	(0.488)	0.310	0.034	
60	5.00	2.60	0.359	(0.488)	0.323	0.036	
61	5.08	3.10	0.428	(0.488)	0.385	0.043	
62	5.17	3.60	0.497	(0.488)	0.447	0.050	
63	5.25	3.90	0.538	(0.488)	0.484	0.054	
64	5.33	4.20	0.579	0.488	(0.522)	0.091	
65	5.42	4.70	0.648	0.488	(0.584)	0.160	
66	5.50	5.60	0.773	0.488	(0.695)	0.284	
67	5.58	1.90	0.262	(0.488)	0.236	0.026	
68	5.67	0.90	0.124	(0.488)	0.112	0.012	
69	5.75	0.60	0.083	(0.488)	0.075	0.008	
70	5.83	0.50	0.069	(0.488)	0.062	0.007	
71	5.92	0.30	0.041	(0.488)	0.037	0.004	
72	6.00	0.20	0.028	(0.488)	0.025	0.003	

(Loss Rate Not Used)

Sum = 100.0 Sum = 1.7

Flood volume = Effective rainfall 0.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 1.01(In)
Total soil loss = 5.630(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 34812.4 Cubic Feet
Total soil loss = 245231.9 Cubic Feet

Peak flow rate of this hydrograph = 10.077(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.03	Q				
0+10	0.0014	0.17	Q				
0+15	0.0036	0.33	Q				
0+20	0.0065	0.41	Q				
0+25	0.0096	0.45	Q				
0+30	0.0129	0.49	Q				
0+35	0.0166	0.53	VQ				
0+40	0.0205	0.57	|Q				
0+45	0.0246	0.60	|Q				
0+50	0.0289	0.61	|Q				
0+55	0.0331	0.62	|Q				
1+ 0	0.0375	0.64	|Q				
1+ 5	0.0421	0.67	|QV				
1+10	0.0470	0.70	|QV				
1+15	0.0519	0.72	|QV				
1+20	0.0569	0.73	|QV				
1+25	0.0620	0.73	|Q V				
1+30	0.0670	0.74	|Q V				
1+35	0.0721	0.74	|Q V				
1+40	0.0772	0.74	|Q V				
1+45	0.0823	0.74	|Q V				
1+50	0.0874	0.74	|Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX262

1+55	0.0926	0.74		Q V				
2+ 0	0.0978	0.75		Q V				
2+ 5	0.1031	0.77		Q V				
2+10	0.1084	0.78		Q V				
2+15	0.1139	0.79		Q V				
2+20	0.1195	0.81		Q V				
2+25	0.1251	0.82		Q V				
2+30	0.1308	0.83		Q V				
2+35	0.1365	0.83		Q V				
2+40	0.1423	0.83		Q V				
2+45	0.1481	0.84		Q V				
2+50	0.1540	0.87		Q V				
2+55	0.1602	0.90		Q V				
3+ 0	0.1665	0.91		Q V				
3+ 5	0.1728	0.92		Q V				
3+10	0.1791	0.93		Q V				
3+15	0.1857	0.96		Q V				
3+20	0.1925	0.98		Q V				
3+25	0.1994	1.00		Q V				
3+30	0.2066	1.04		Q V				
3+35	0.2143	1.11		Q V				
3+40	0.2224	1.18		Q	V			
3+45	0.2308	1.23		Q	V			
3+50	0.2397	1.28		Q	V			
3+55	0.2488	1.33		Q	V			
4+ 0	0.2583	1.38		Q	V			
4+ 5	0.2681	1.42		Q	V			
4+10	0.2783	1.48		Q	V			
4+15	0.2890	1.55		Q	V			
4+20	0.3002	1.63		Q	V			
4+25	0.3120	1.72		Q	V			
4+30	0.3244	1.80		Q	V			
4+35	0.3372	1.86		Q	V			
4+40	0.3505	1.92		Q	V			
4+45	0.3642	2.00		Q	V			
4+50	0.3786	2.08		Q	V			
4+55	0.3933	2.14		Q	V			
5+ 0	0.4085	2.20		Q	V			
5+ 5	0.4244	2.31		Q		V		
5+10	0.4418	2.52		Q		V		
5+15	0.4613	2.83		Q		V		
5+20	0.4839	3.29		Q		V		
5+25	0.5148	4.48		Q		V		
5+30	0.5641	7.16			Q		V	
5+35	0.6335	10.08				Q		V	
5+40	0.6906	8.29			Q			V	
5+45	0.7216	4.51		Q				V	
5+50	0.7416	2.91		Q				V	
5+55	0.7564	2.14		Q				V	
6+ 0	0.7675	1.62		Q				V	
6+ 5	0.7759	1.22		Q				V	
6+10	0.7821	0.90		Q				V	
6+15	0.7868	0.69		Q				V	
6+20	0.7904	0.52		Q				V	
6+25	0.7932	0.40	Q					V	
6+30	0.7953	0.30	Q					V	
6+35	0.7968	0.23	Q					V	
6+40	0.7981	0.18	Q					V	
6+45	0.7988	0.11	Q					V	
6+50	0.7990	0.02	Q					V	
6+55	0.7991	0.01	Q					V	
7+ 0	0.7991	0.01	Q					V	
7+ 5	0.7992	0.00	Q					V	
7+10	0.7992	0.00	Q					V	
7+15	0.7992	0.00	Q					V	

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX2242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.866)	0.013	0.001
2	0.17	0.07	0.014	(0.862)	0.013	0.001
3	0.25	0.07	0.014	(0.859)	0.013	0.001
4	0.33	0.10	0.021	(0.856)	0.019	0.002
5	0.42	0.10	0.021	(0.852)	0.019	0.002
6	0.50	0.10	0.021	(0.849)	0.019	0.002
7	0.58	0.10	0.021	(0.846)	0.019	0.002
8	0.67	0.10	0.021	(0.842)	0.019	0.002
9	0.75	0.10	0.021	(0.839)	0.019	0.002
10	0.83	0.13	0.028	(0.836)	0.025	0.003
11	0.92	0.13	0.028	(0.833)	0.025	0.003
12	1.00	0.13	0.028	(0.829)	0.025	0.003
13	1.08	0.10	0.021	(0.826)	0.019	0.002
14	1.17	0.10	0.021	(0.823)	0.019	0.002
15	1.25	0.10	0.021	(0.819)	0.019	0.002
16	1.33	0.10	0.021	(0.816)	0.019	0.002
17	1.42	0.10	0.021	(0.813)	0.019	0.002
18	1.50	0.10	0.021	(0.810)	0.019	0.002
19	1.58	0.10	0.021	(0.806)	0.019	0.002
20	1.67	0.10	0.021	(0.803)	0.019	0.002
21	1.75	0.10	0.021	(0.800)	0.019	0.002
22	1.83	0.13	0.028	(0.797)	0.025	0.003
23	1.92	0.13	0.028	(0.794)	0.025	0.003
24	2.00	0.13	0.028	(0.790)	0.025	0.003
25	2.08	0.13	0.028	(0.787)	0.025	0.003
26	2.17	0.13	0.028	(0.784)	0.025	0.003
27	2.25	0.13	0.028	(0.781)	0.025	0.003
28	2.33	0.13	0.028	(0.778)	0.025	0.003
29	2.42	0.13	0.028	(0.774)	0.025	0.003
30	2.50	0.13	0.028	(0.771)	0.025	0.003
31	2.58	0.17	0.035	(0.768)	0.031	0.003
32	2.67	0.17	0.035	(0.765)	0.031	0.003
33	2.75	0.17	0.035	(0.762)	0.031	0.003
34	2.83	0.17	0.035	(0.759)	0.031	0.003
35	2.92	0.17	0.035	(0.756)	0.031	0.003
36	3.00	0.17	0.035	(0.752)	0.031	0.003
37	3.08	0.17	0.035	(0.749)	0.031	0.003
38	3.17	0.17	0.035	(0.746)	0.031	0.003

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.035	(0.743)	0.031	0.003
40	3.33	0.17	0.035	(0.740)	0.031	0.003
41	3.42	0.17	0.035	(0.737)	0.031	0.003
42	3.50	0.17	0.035	(0.734)	0.031	0.003
43	3.58	0.17	0.035	(0.731)	0.031	0.003
44	3.67	0.17	0.035	(0.728)	0.031	0.003
45	3.75	0.17	0.035	(0.725)	0.031	0.003
46	3.83	0.20	0.042	(0.722)	0.038	0.004
47	3.92	0.20	0.042	(0.719)	0.038	0.004
48	4.00	0.20	0.042	(0.715)	0.038	0.004
49	4.08	0.20	0.042	(0.712)	0.038	0.004
50	4.17	0.20	0.042	(0.709)	0.038	0.004
51	4.25	0.20	0.042	(0.706)	0.038	0.004
52	4.33	0.23	0.049	(0.703)	0.044	0.005
53	4.42	0.23	0.049	(0.700)	0.044	0.005
54	4.50	0.23	0.049	(0.697)	0.044	0.005
55	4.58	0.23	0.049	(0.694)	0.044	0.005
56	4.67	0.23	0.049	(0.691)	0.044	0.005
57	4.75	0.23	0.049	(0.688)	0.044	0.005
58	4.83	0.27	0.056	(0.685)	0.050	0.006
59	4.92	0.27	0.056	(0.683)	0.050	0.006
60	5.00	0.27	0.056	(0.680)	0.050	0.006
61	5.08	0.20	0.042	(0.677)	0.038	0.004
62	5.17	0.20	0.042	(0.674)	0.038	0.004
63	5.25	0.20	0.042	(0.671)	0.038	0.004
64	5.33	0.23	0.049	(0.668)	0.044	0.005
65	5.42	0.23	0.049	(0.665)	0.044	0.005
66	5.50	0.23	0.049	(0.662)	0.044	0.005
67	5.58	0.27	0.056	(0.659)	0.050	0.006
68	5.67	0.27	0.056	(0.656)	0.050	0.006
69	5.75	0.27	0.056	(0.653)	0.050	0.006
70	5.83	0.27	0.056	(0.650)	0.050	0.006
71	5.92	0.27	0.056	(0.647)	0.050	0.006
72	6.00	0.27	0.056	(0.645)	0.050	0.006
73	6.08	0.30	0.063	(0.642)	0.057	0.006
74	6.17	0.30	0.063	(0.639)	0.057	0.006
75	6.25	0.30	0.063	(0.636)	0.057	0.006
76	6.33	0.30	0.063	(0.633)	0.057	0.006
77	6.42	0.30	0.063	(0.630)	0.057	0.006
78	6.50	0.30	0.063	(0.628)	0.057	0.006
79	6.58	0.33	0.070	(0.625)	0.063	0.007
80	6.67	0.33	0.070	(0.622)	0.063	0.007
81	6.75	0.33	0.070	(0.619)	0.063	0.007
82	6.83	0.33	0.070	(0.616)	0.063	0.007
83	6.92	0.33	0.070	(0.614)	0.063	0.007
84	7.00	0.33	0.070	(0.611)	0.063	0.007
85	7.08	0.33	0.070	(0.608)	0.063	0.007
86	7.17	0.33	0.070	(0.605)	0.063	0.007
87	7.25	0.33	0.070	(0.602)	0.063	0.007
88	7.33	0.37	0.077	(0.600)	0.069	0.008
89	7.42	0.37	0.077	(0.597)	0.069	0.008
90	7.50	0.37	0.077	(0.594)	0.069	0.008
91	7.58	0.40	0.084	(0.591)	0.076	0.008
92	7.67	0.40	0.084	(0.589)	0.076	0.008
93	7.75	0.40	0.084	(0.586)	0.076	0.008
94	7.83	0.43	0.091	(0.583)	0.082	0.009
95	7.92	0.43	0.091	(0.581)	0.082	0.009
96	8.00	0.43	0.091	(0.578)	0.082	0.009
97	8.08	0.50	0.105	(0.575)	0.094	0.010
98	8.17	0.50	0.105	(0.573)	0.094	0.010
99	8.25	0.50	0.105	(0.570)	0.094	0.010
100	8.33	0.50	0.105	(0.567)	0.094	0.010
101	8.42	0.50	0.105	(0.565)	0.094	0.010
102	8.50	0.50	0.105	(0.562)	0.094	0.010
103	8.58	0.53	0.112	(0.559)	0.101	0.011
104	8.67	0.53	0.112	(0.557)	0.101	0.011
105	8.75	0.53	0.112	(0.554)	0.101	0.011
106	8.83	0.57	0.119	(0.551)	0.107	0.012
107	8.92	0.57	0.119	(0.549)	0.107	0.012
108	9.00	0.57	0.119	(0.546)	0.107	0.012
109	9.08	0.63	0.133	(0.544)	0.120	0.013
110	9.17	0.63	0.133	(0.541)	0.120	0.013
111	9.25	0.63	0.133	(0.539)	0.120	0.013
112	9.33	0.67	0.140	(0.536)	0.126	0.014
113	9.42	0.67	0.140	(0.533)	0.126	0.014
114	9.50	0.67	0.140	(0.531)	0.126	0.014
115	9.58	0.70	0.147	(0.528)	0.132	0.015

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX224

116	9.67	0.70	0.147	(0.526)	0.132	0.015
117	9.75	0.70	0.147	(0.523)	0.132	0.015
118	9.83	0.73	0.154	(0.521)	0.139	0.015
119	9.92	0.73	0.154	(0.518)	0.139	0.015
120	10.00	0.73	0.154	(0.516)	0.139	0.015
121	10.08	0.50	0.105	(0.513)	0.094	0.010
122	10.17	0.50	0.105	(0.511)	0.094	0.010
123	10.25	0.50	0.105	(0.508)	0.094	0.010
124	10.33	0.50	0.105	(0.506)	0.094	0.010
125	10.42	0.50	0.105	(0.503)	0.094	0.010
126	10.50	0.50	0.105	(0.501)	0.094	0.010
127	10.58	0.67	0.140	(0.498)	0.126	0.014
128	10.67	0.67	0.140	(0.496)	0.126	0.014
129	10.75	0.67	0.140	(0.494)	0.126	0.014
130	10.83	0.67	0.140	(0.491)	0.126	0.014
131	10.92	0.67	0.140	(0.489)	0.126	0.014
132	11.00	0.67	0.140	(0.486)	0.126	0.014
133	11.08	0.63	0.133	(0.484)	0.120	0.013
134	11.17	0.63	0.133	(0.482)	0.120	0.013
135	11.25	0.63	0.133	(0.479)	0.120	0.013
136	11.33	0.63	0.133	(0.477)	0.120	0.013
137	11.42	0.63	0.133	(0.474)	0.120	0.013
138	11.50	0.63	0.133	(0.472)	0.120	0.013
139	11.58	0.57	0.119	(0.470)	0.107	0.012
140	11.67	0.57	0.119	(0.467)	0.107	0.012
141	11.75	0.57	0.119	(0.465)	0.107	0.012
142	11.83	0.60	0.126	(0.463)	0.113	0.013
143	11.92	0.60	0.126	(0.460)	0.113	0.013
144	12.00	0.60	0.126	(0.458)	0.113	0.013
145	12.08	0.83	0.175	(0.456)	0.157	0.017
146	12.17	0.83	0.175	(0.454)	0.157	0.017
147	12.25	0.83	0.175	(0.451)	0.157	0.017
148	12.33	0.87	0.182	(0.449)	0.164	0.018
149	12.42	0.87	0.182	(0.447)	0.164	0.018
150	12.50	0.87	0.182	(0.445)	0.164	0.018
151	12.58	0.93	0.196	(0.442)	0.176	0.020
152	12.67	0.93	0.196	(0.440)	0.176	0.020
153	12.75	0.93	0.196	(0.438)	0.176	0.020
154	12.83	0.97	0.203	(0.436)	0.183	0.020
155	12.92	0.97	0.203	(0.433)	0.183	0.020
156	13.00	0.97	0.203	(0.431)	0.183	0.020
157	13.08	1.13	0.238	(0.429)	0.214	0.024
158	13.17	1.13	0.238	(0.427)	0.214	0.024
159	13.25	1.13	0.238	(0.425)	0.214	0.024
160	13.33	1.13	0.238	(0.423)	0.214	0.024
161	13.42	1.13	0.238	(0.420)	0.214	0.024
162	13.50	1.13	0.238	(0.418)	0.214	0.024
163	13.58	0.77	0.161	(0.416)	0.145	0.016
164	13.67	0.77	0.161	(0.414)	0.145	0.016
165	13.75	0.77	0.161	(0.412)	0.145	0.016
166	13.83	0.77	0.161	(0.410)	0.145	0.016
167	13.92	0.77	0.161	(0.408)	0.145	0.016
168	14.00	0.77	0.161	(0.406)	0.145	0.016
169	14.08	0.90	0.189	(0.404)	0.170	0.019
170	14.17	0.90	0.189	(0.402)	0.170	0.019
171	14.25	0.90	0.189	(0.399)	0.170	0.019
172	14.33	0.87	0.182	(0.397)	0.164	0.018
173	14.42	0.87	0.182	(0.395)	0.164	0.018
174	14.50	0.87	0.182	(0.393)	0.164	0.018
175	14.58	0.87	0.182	(0.391)	0.164	0.018
176	14.67	0.87	0.182	(0.389)	0.164	0.018
177	14.75	0.87	0.182	(0.387)	0.164	0.018
178	14.83	0.83	0.175	(0.385)	0.157	0.017
179	14.92	0.83	0.175	(0.383)	0.157	0.017
180	15.00	0.83	0.175	(0.381)	0.157	0.017
181	15.08	0.80	0.168	(0.379)	0.151	0.017
182	15.17	0.80	0.168	(0.378)	0.151	0.017
183	15.25	0.80	0.168	(0.376)	0.151	0.017
184	15.33	0.77	0.161	(0.374)	0.145	0.016
185	15.42	0.77	0.161	(0.372)	0.145	0.016
186	15.50	0.77	0.161	(0.370)	0.145	0.016
187	15.58	0.63	0.133	(0.368)	0.120	0.013
188	15.67	0.63	0.133	(0.366)	0.120	0.013
189	15.75	0.63	0.133	(0.364)	0.120	0.013
190	15.83	0.63	0.133	(0.362)	0.120	0.013
191	15.92	0.63	0.133	(0.360)	0.120	0.013
192	16.00	0.63	0.133	(0.359)	0.120	0.013

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.028	(0.357)	0.025	0.003
194	16.17	0.13	0.028	(0.355)	0.025	0.003
195	16.25	0.13	0.028	(0.353)	0.025	0.003
196	16.33	0.13	0.028	(0.351)	0.025	0.003
197	16.42	0.13	0.028	(0.350)	0.025	0.003
198	16.50	0.13	0.028	(0.348)	0.025	0.003
199	16.58	0.10	0.021	(0.346)	0.019	0.002
200	16.67	0.10	0.021	(0.344)	0.019	0.002
201	16.75	0.10	0.021	(0.343)	0.019	0.002
202	16.83	0.10	0.021	(0.341)	0.019	0.002
203	16.92	0.10	0.021	(0.339)	0.019	0.002
204	17.00	0.10	0.021	(0.337)	0.019	0.002
205	17.08	0.17	0.035	(0.336)	0.031	0.003
206	17.17	0.17	0.035	(0.334)	0.031	0.003
207	17.25	0.17	0.035	(0.332)	0.031	0.003
208	17.33	0.17	0.035	(0.331)	0.031	0.003
209	17.42	0.17	0.035	(0.329)	0.031	0.003
210	17.50	0.17	0.035	(0.327)	0.031	0.003
211	17.58	0.17	0.035	(0.326)	0.031	0.003
212	17.67	0.17	0.035	(0.324)	0.031	0.003
213	17.75	0.17	0.035	(0.322)	0.031	0.003
214	17.83	0.13	0.028	(0.321)	0.025	0.003
215	17.92	0.13	0.028	(0.319)	0.025	0.003
216	18.00	0.13	0.028	(0.318)	0.025	0.003
217	18.08	0.13	0.028	(0.316)	0.025	0.003
218	18.17	0.13	0.028	(0.315)	0.025	0.003
219	18.25	0.13	0.028	(0.313)	0.025	0.003
220	18.33	0.13	0.028	(0.311)	0.025	0.003
221	18.42	0.13	0.028	(0.310)	0.025	0.003
222	18.50	0.13	0.028	(0.308)	0.025	0.003
223	18.58	0.10	0.021	(0.307)	0.019	0.002
224	18.67	0.10	0.021	(0.305)	0.019	0.002
225	18.75	0.10	0.021	(0.304)	0.019	0.002
226	18.83	0.07	0.014	(0.303)	0.013	0.001
227	18.92	0.07	0.014	(0.301)	0.013	0.001
228	19.00	0.07	0.014	(0.300)	0.013	0.001
229	19.08	0.10	0.021	(0.298)	0.019	0.002
230	19.17	0.10	0.021	(0.297)	0.019	0.002
231	19.25	0.10	0.021	(0.295)	0.019	0.002
232	19.33	0.13	0.028	(0.294)	0.025	0.003
233	19.42	0.13	0.028	(0.293)	0.025	0.003
234	19.50	0.13	0.028	(0.291)	0.025	0.003
235	19.58	0.10	0.021	(0.290)	0.019	0.002
236	19.67	0.10	0.021	(0.289)	0.019	0.002
237	19.75	0.10	0.021	(0.287)	0.019	0.002
238	19.83	0.07	0.014	(0.286)	0.013	0.001
239	19.92	0.07	0.014	(0.285)	0.013	0.001
240	20.00	0.07	0.014	(0.284)	0.013	0.001
241	20.08	0.10	0.021	(0.282)	0.019	0.002
242	20.17	0.10	0.021	(0.281)	0.019	0.002
243	20.25	0.10	0.021	(0.280)	0.019	0.002
244	20.33	0.10	0.021	(0.279)	0.019	0.002
245	20.42	0.10	0.021	(0.277)	0.019	0.002
246	20.50	0.10	0.021	(0.276)	0.019	0.002
247	20.58	0.10	0.021	(0.275)	0.019	0.002
248	20.67	0.10	0.021	(0.274)	0.019	0.002
249	20.75	0.10	0.021	(0.273)	0.019	0.002
250	20.83	0.07	0.014	(0.272)	0.013	0.001
251	20.92	0.07	0.014	(0.271)	0.013	0.001
252	21.00	0.07	0.014	(0.270)	0.013	0.001
253	21.08	0.10	0.021	(0.268)	0.019	0.002
254	21.17	0.10	0.021	(0.267)	0.019	0.002
255	21.25	0.10	0.021	(0.266)	0.019	0.002
256	21.33	0.07	0.014	(0.265)	0.013	0.001
257	21.42	0.07	0.014	(0.264)	0.013	0.001
258	21.50	0.07	0.014	(0.263)	0.013	0.001
259	21.58	0.10	0.021	(0.262)	0.019	0.002
260	21.67	0.10	0.021	(0.261)	0.019	0.002
261	21.75	0.10	0.021	(0.261)	0.019	0.002
262	21.83	0.07	0.014	(0.260)	0.013	0.001
263	21.92	0.07	0.014	(0.259)	0.013	0.001
264	22.00	0.07	0.014	(0.258)	0.013	0.001
265	22.08	0.10	0.021	(0.257)	0.019	0.002
266	22.17	0.10	0.021	(0.256)	0.019	0.002
267	22.25	0.10	0.021	(0.255)	0.019	0.002
268	22.33	0.07	0.014	(0.255)	0.013	0.001
269	22.42	0.07	0.014	(0.254)	0.013	0.001

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.014	(0.253)	0.013	0.001
271	22.58	0.07	0.014	(0.252)	0.013	0.001
272	22.67	0.07	0.014	(0.252)	0.013	0.001
273	22.75	0.07	0.014	(0.251)	0.013	0.001
274	22.83	0.07	0.014	(0.250)	0.013	0.001
275	22.92	0.07	0.014	(0.250)	0.013	0.001
276	23.00	0.07	0.014	(0.249)	0.013	0.001
277	23.08	0.07	0.014	(0.248)	0.013	0.001
278	23.17	0.07	0.014	(0.248)	0.013	0.001
279	23.25	0.07	0.014	(0.247)	0.013	0.001
280	23.33	0.07	0.014	(0.247)	0.013	0.001
281	23.42	0.07	0.014	(0.246)	0.013	0.001
282	23.50	0.07	0.014	(0.246)	0.013	0.001
283	23.58	0.07	0.014	(0.246)	0.013	0.001
284	23.67	0.07	0.014	(0.245)	0.013	0.001
285	23.75	0.07	0.014	(0.245)	0.013	0.001
286	23.83	0.07	0.014	(0.245)	0.013	0.001
287	23.92	0.07	0.014	(0.244)	0.013	0.001
288	24.00	0.07	0.014	(0.244)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.1

Flood volume = Effective rainfall 0.17(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 1.57(In)
Total soil loss = 8.806(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 42619.7 Cubic Feet
Total soil loss = 383577.2 Cubic Feet

Peak flow rate of this hydrograph = 1.573(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0003	0.03	Q				
0+15	0.0007	0.06	Q				
0+20	0.0012	0.07	Q				
0+25	0.0018	0.09	Q				
0+30	0.0026	0.11	Q				
0+35	0.0034	0.12	Q				
0+40	0.0043	0.13	Q				
0+45	0.0052	0.13	Q				
0+50	0.0061	0.14	Q				
0+55	0.0072	0.15	Q				
1+ 0	0.0083	0.17	Q				
1+ 5	0.0095	0.17	Q				
1+10	0.0106	0.16	Q				
1+15	0.0117	0.15	Q				
1+20	0.0127	0.15	Q				
1+25	0.0137	0.15	Q				
1+30	0.0147	0.15	Q				
1+35	0.0157	0.14	Q				
1+40	0.0167	0.14	Q				
1+45	0.0177	0.14	Q				
1+50	0.0187	0.15	Q				
1+55	0.0198	0.16	Q				
2+ 0	0.0210	0.17	Q				
2+ 5	0.0222	0.18	Q				
2+10	0.0235	0.18	Q				
2+15	0.0247	0.18	QV				
2+20	0.0260	0.18	QV				
2+25	0.0273	0.19	QV				
2+30	0.0286	0.19	QV				
2+35	0.0299	0.19	QV				
2+40	0.0313	0.20	QV				
2+45	0.0328	0.22	QV				
2+50	0.0343	0.22	QV				
2+55	0.0359	0.23	QV				
3+ 0	0.0375	0.23	QV				
3+ 5	0.0391	0.23	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
3+10      0.0407      0.23  QV        |         |         |         |
3+15      0.0423      0.23  QV        |         |         |         |
3+20      0.0439      0.23  QV        |         |         |         |
3+25      0.0455      0.24  QV        |         |         |         |
3+30      0.0472      0.24  QV        |         |         |         |
3+35      0.0488      0.24  QV        |         |         |         |
3+40      0.0504      0.24  Q V       |         |         |         |
3+45      0.0521      0.24  Q V       |         |         |         |
3+50      0.0537      0.24  Q V       |         |         |         |
3+55      0.0554      0.25  |QV       |         |         |         |
4+ 0      0.0573      0.27  |QV       |         |         |         |
4+ 5      0.0592      0.27  |QV       |         |         |         |
4+10      0.0611      0.28  |QV       |         |         |         |
4+15      0.0630      0.28  |QV       |         |         |         |
4+20      0.0649      0.28  |QV       |         |         |         |
4+25      0.0670      0.30  |QV       |         |         |         |
4+30      0.0691      0.31  |QV       |         |         |         |
4+35      0.0713      0.32  |QV       |         |         |         |
4+40      0.0735      0.32  |Q V      |         |         |         |
4+45      0.0757      0.32  |Q V      |         |         |         |
4+50      0.0780      0.33  |Q V      |         |         |         |
4+55      0.0804      0.34  |Q V      |         |         |         |
5+ 0      0.0828      0.36  |Q V      |         |         |         |
5+ 5      0.0853      0.36  |Q V      |         |         |         |
5+10      0.0876      0.34  |Q V      |         |         |         |
5+15      0.0898      0.31  |Q V      |         |         |         |
5+20      0.0919      0.31  |Q V      |         |         |         |
5+25      0.0940      0.31  |Q V      |         |         |         |
5+30      0.0963      0.32  |Q V      |         |         |         |
5+35      0.0985      0.33  |Q  V     |         |         |         |
5+40      0.1009      0.35  |Q  V     |         |         |         |
5+45      0.1034      0.36  |Q  V     |         |         |         |
5+50      0.1059      0.37  |Q  V     |         |         |         |
5+55      0.1085      0.37  |Q  V     |         |         |         |
6+ 0      0.1110      0.37  |Q  V     |         |         |         |
6+ 5      0.1136      0.38  |Q  V     |         |         |         |
6+10      0.1163      0.39  |Q  V     |         |         |         |
6+15      0.1191      0.41  |Q  V     |         |         |         |
6+20      0.1219      0.41  |Q  V     |         |         |         |
6+25      0.1248      0.42  |Q   V    |         |         |         |
6+30      0.1277      0.42  |Q   V    |         |         |         |
6+35      0.1306      0.42  |Q   V    |         |         |         |
6+40      0.1336      0.44  |Q   V    |         |         |         |
6+45      0.1367      0.45  |Q   V    |         |         |         |
6+50      0.1399      0.46  |Q   V    |         |         |         |
6+55      0.1431      0.46  |Q   V    |         |         |         |
7+ 0      0.1463      0.47  |Q   V    |         |         |         |
7+ 5      0.1495      0.47  |Q    V   |         |         |         |
7+10      0.1528      0.47  |Q    V   |         |         |         |
7+15      0.1560      0.47  |Q    V   |         |         |         |
7+20      0.1593      0.47  |Q    V   |         |         |         |
7+25      0.1626      0.49  |Q    V   |         |         |         |
7+30      0.1661      0.50  | Q   V   |         |         |         |
7+35      0.1696      0.51  | Q   V   |         |         |         |
7+40      0.1733      0.53  | Q    V  |         |         |         |
7+45      0.1770      0.54  | Q    V  |         |         |         |
7+50      0.1808      0.55  | Q    V  |         |         |         |
7+55      0.1848      0.57  | Q    V  |         |         |         |
8+ 0      0.1888      0.59  | Q    V  |         |         |         |
8+ 5      0.1930      0.60  | Q    V  |         |         |         |
8+10      0.1974      0.63  | Q     V |         |         |         |
8+15      0.2019      0.67  | Q     V |         |         |         |
8+20      0.2066      0.68  | Q     V |         |         |         |
8+25      0.2114      0.69  | Q     V |         |         |         |
8+30      0.2161      0.69  | Q     V |         |         |         |
8+35      0.2210      0.70  | Q      V|         |         |         |
8+40      0.2259      0.72  | Q      V|         |         |         |
8+45      0.2310      0.73  | Q      V|         |         |         |
8+50      0.2361      0.74  | Q      V|         |         |         |
8+55      0.2413      0.76  |  Q     V|         |         |         |
9+ 0      0.2467      0.78  |  Q      V         |         |         |
9+ 5      0.2522      0.79  |  Q      V         |         |         |
9+10      0.2578      0.82  |  Q      V         |         |         |
9+15      0.2637      0.86  |  Q      V         |         |         |
9+20      0.2697      0.87  |  Q      |V        |         |         |
9+25      0.2759      0.89  |  Q      |V        |         |         |
9+30      0.2822      0.91  |  Q      |V        |         |         |
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

9+35	0.2886	0.93	Q	V				
9+40	0.2951	0.95	Q	V				
9+45	0.3017	0.96	Q	V				
9+50	0.3084	0.98	Q	V				
9+55	0.3153	1.00	Q	V				
10+ 0	0.3223	1.01	Q	V				
10+ 5	0.3292	1.00	Q	V				
10+10	0.3354	0.91	Q	V				
10+15	0.3411	0.82	Q	V				
10+20	0.3465	0.78	Q	V				
10+25	0.3518	0.76	Q	V				
10+30	0.3569	0.75	Q	V				
10+35	0.3621	0.76	Q	V				
10+40	0.3678	0.82	Q	V				
10+45	0.3738	0.88	Q	V				
10+50	0.3800	0.90	Q	V				
10+55	0.3863	0.91	Q	V				
11+ 0	0.3927	0.92	Q	V				
11+ 5	0.3991	0.92	Q	V				
11+10	0.4054	0.92	Q	V				
11+15	0.4116	0.90	Q	V				
11+20	0.4178	0.90	Q	V				
11+25	0.4240	0.90	Q	V				
11+30	0.4302	0.90	Q	V				
11+35	0.4364	0.89	Q	V				
11+40	0.4423	0.87	Q	V				
11+45	0.4481	0.84	Q	V				
11+50	0.4539	0.83	Q	V				
11+55	0.4597	0.84	Q	V				
12+ 0	0.4655	0.85	Q	V				
12+ 5	0.4715	0.87	Q	V				
12+10	0.4782	0.97	Q	V				
12+15	0.4855	1.06	Q	V				
12+20	0.4931	1.10	Q	V				
12+25	0.5009	1.14	Q	V				
12+30	0.5090	1.17	Q	V				
12+35	0.5172	1.19	Q	V				
12+40	0.5257	1.23	Q	V				
12+45	0.5344	1.26	Q	V				
12+50	0.5432	1.29	Q	V				
12+55	0.5523	1.31	Q	V				
13+ 0	0.5614	1.33	Q	V				
13+ 5	0.5708	1.36	Q	V				
13+10	0.5807	1.43	Q	V				
13+15	0.5911	1.51	Q	V				
13+20	0.6017	1.54	Q	V				
13+25	0.6125	1.56	Q	V				
13+30	0.6233	1.57	Q	V				
13+35	0.6340	1.55	Q	V				
13+40	0.6437	1.41	Q	V				
13+45	0.6524	1.27	Q	V				
13+50	0.6607	1.21	Q	V				
13+55	0.6688	1.18	Q	V				
14+ 0	0.6767	1.15	Q	V				
14+ 5	0.6846	1.15	Q	V				
14+10	0.6929	1.19	Q	V				
14+15	0.7014	1.24	Q	V				
14+20	0.7100	1.25	Q	V				
14+25	0.7186	1.24	Q	V				
14+30	0.7271	1.23	Q	V				
14+35	0.7356	1.23	Q	V				
14+40	0.7440	1.23	Q	V				
14+45	0.7525	1.23	Q	V				
14+50	0.7609	1.22	Q	V				
14+55	0.7693	1.21	Q	V				
15+ 0	0.7775	1.20	Q	V				
15+ 5	0.7858	1.19	Q	V				
15+10	0.7938	1.18	Q	V				
15+15	0.8018	1.16	Q	V				
15+20	0.8098	1.15	Q	V				
15+25	0.8176	1.13	Q	V				
15+30	0.8253	1.12	Q	V				
15+35	0.8328	1.10	Q	V				
15+40	0.8399	1.04	Q	V				
15+45	0.8467	0.98	Q	V				
15+50	0.8533	0.95	Q	V				
15+55	0.8597	0.94	Q	V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+ 0	0.8661	0.93	| Q	|	|	| V	|
16+ 5	0.8722	0.88	| Q	|	|	| V	|
16+10	0.8768	0.67	| Q	|	|	| V	|
16+15	0.8800	0.46	|Q	|	|	| V	|
16+20	0.8825	0.37	|Q	|	|	| V	|
16+25	0.8848	0.32	|Q	|	|	| V	|
16+30	0.8867	0.29	|Q	|	|	| V	|
16+35	0.8885	0.26	|Q	|	|	| V	|
16+40	0.8901	0.23	Q	|	|	| V	|
16+45	0.8915	0.20	Q	|	|	| V	|
16+50	0.8928	0.18	Q	|	|	| V	|
16+55	0.8940	0.17	Q	|	|	| V	|
17+ 0	0.8951	0.16	Q	|	|	| V	|
17+ 5	0.8962	0.16	Q	|	|	| V	|
17+10	0.8975	0.19	Q	|	|	| V	|
17+15	0.8989	0.21	Q	|	|	| V	|
17+20	0.9004	0.22	Q	|	|	| V	|
17+25	0.9020	0.22	Q	|	|	| V	|
17+30	0.9035	0.23	Q	|	|	| V	|
17+35	0.9051	0.23	Q	|	|	| V	|
17+40	0.9067	0.23	Q	|	|	| V	|
17+45	0.9082	0.23	Q	|	|	| V	|
17+50	0.9098	0.23	Q	|	|	| V	|
17+55	0.9113	0.22	Q	|	|	| V	|
18+ 0	0.9127	0.20	Q	|	|	| V	|
18+ 5	0.9141	0.20	Q	|	|	| V	|
18+10	0.9155	0.20	Q	|	|	| V	|
18+15	0.9168	0.20	Q	|	|	| V	|
18+20	0.9182	0.19	Q	|	|	| V	|
18+25	0.9195	0.19	Q	|	|	| V	|
18+30	0.9208	0.19	Q	|	|	| V	|
18+35	0.9221	0.19	Q	|	|	| V	|
18+40	0.9233	0.17	Q	|	|	| V	|
18+45	0.9244	0.16	Q	|	|	| V	|
18+50	0.9255	0.15	Q	|	|	| V	|
18+55	0.9264	0.13	Q	|	|	| V	|
19+ 0	0.9272	0.12	Q	|	|	| V	|
19+ 5	0.9280	0.11	Q	|	|	| V	|
19+10	0.9288	0.12	Q	|	|	| V	|
19+15	0.9298	0.13	Q	|	|	| V	|
19+20	0.9307	0.14	Q	|	|	| V	|
19+25	0.9318	0.16	Q	|	|	| V	|
19+30	0.9330	0.17	Q	|	|	| V	|
19+35	0.9341	0.17	Q	|	|	| V	|
19+40	0.9353	0.16	Q	|	|	| V	|
19+45	0.9363	0.15	Q	|	|	| V	|
19+50	0.9373	0.14	Q	|	|	| V	|
19+55	0.9382	0.13	Q	|	|	| V	|
20+ 0	0.9390	0.11	Q	|	|	| V	|
20+ 5	0.9398	0.11	Q	|	|	| V	|
20+10	0.9406	0.12	Q	|	|	| V	|
20+15	0.9415	0.13	Q	|	|	| V	|
20+20	0.9424	0.14	Q	|	|	| V	|
20+25	0.9434	0.14	Q	|	|	| V	|
20+30	0.9444	0.14	Q	|	|	| V	|
20+35	0.9453	0.14	Q	|	|	| V	|
20+40	0.9463	0.14	Q	|	|	| V	|
20+45	0.9473	0.14	Q	|	|	| V	|
20+50	0.9482	0.14	Q	|	|	| V	|
20+55	0.9491	0.12	Q	|	|	| V	|
21+ 0	0.9498	0.11	Q	|	|	| V	|
21+ 5	0.9506	0.11	Q	|	|	| V	|
21+10	0.9514	0.12	Q	|	|	| V	|
21+15	0.9523	0.13	Q	|	|	| V	|
21+20	0.9532	0.13	Q	|	|	| V	|
21+25	0.9540	0.12	Q	|	|	| V	|
21+30	0.9548	0.11	Q	|	|	| V	|
21+35	0.9555	0.11	Q	|	|	| V	|
21+40	0.9563	0.12	Q	|	|	| V	|
21+45	0.9572	0.13	Q	|	|	| V	|
21+50	0.9581	0.13	Q	|	|	| V	|
21+55	0.9589	0.12	Q	|	|	| V	|
22+ 0	0.9597	0.11	Q	|	|	| V	|
22+ 5	0.9604	0.11	Q	|	|	| V	|
22+10	0.9612	0.12	Q	|	|	| V	|
22+15	0.9621	0.13	Q	|	|	| V	|
22+20	0.9630	0.13	Q	|	|	| V	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX224

22+25	0.9638	0.12	Q	|	|	|	V|
22+30	0.9646	0.11	Q	|	|	|	V|
22+35	0.9653	0.10	Q	|	|	|	V|
22+40	0.9660	0.10	Q	|	|	|	V|
22+45	0.9667	0.10	Q	|	|	|	V|
22+50	0.9673	0.10	Q	|	|	|	V|
22+55	0.9680	0.10	Q	|	|	|	V|
23+ 0	0.9687	0.10	Q	|	|	|	V|
23+ 5	0.9693	0.10	Q	|	|	|	V|
23+10	0.9700	0.10	Q	|	|	|	V|
23+15	0.9707	0.10	Q	|	|	|	V|
23+20	0.9713	0.10	Q	|	|	|	V|
23+25	0.9720	0.10	Q	|	|	|	V|
23+30	0.9726	0.09	Q	|	|	|	V|
23+35	0.9733	0.09	Q	|	|	|	V|
23+40	0.9739	0.09	Q	|	|	|	V|
23+45	0.9746	0.09	Q	|	|	|	V|
23+50	0.9752	0.09	Q	|	|	|	V|
23+55	0.9759	0.09	Q	|	|	|	V|
24+ 0	0.9765	0.09	Q	|	|	|	V|
24+ 5	0.9771	0.09	Q	|	|	|	V|
24+10	0.9776	0.06	Q	|	|	|	V|
24+15	0.9778	0.03	Q	|	|	|	V|
24+20	0.9780	0.02	Q	|	|	|	V|
24+25	0.9781	0.02	Q	|	|	|	V|
24+30	0.9782	0.01	Q	|	|	|	V|
24+35	0.9782	0.01	Q	|	|	|	V|
24+40	0.9783	0.01	Q	|	|	|	V|
24+45	0.9783	0.01	Q	|	|	|	V|
24+50	0.9784	0.00	Q	|	|	|	V|
24+55	0.9784	0.00	Q	|	|	|	V|
25+ 0	0.9784	0.00	Q	|	|	|	V|
25+ 5	0.9784	0.00	Q	|	|	|	V|
25+10	0.9784	0.00	Q	|	|	|	V|
25+15	0.9784	0.00	Q	|	|	|	V|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX515.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX515

76.0 58.2 0.488 0.000 0.488 1.000 0.488
Sum (F) = 0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.334	(0.488)	0.301	0.033
2	0.17	4.30	0.342	(0.488)	0.308	0.034
3	0.25	5.00	0.398	(0.488)	0.358	0.040
4	0.33	5.00	0.398	(0.488)	0.358	0.040
5	0.42	5.80	0.462	(0.488)	0.416	0.046
6	0.50	6.50	0.518	(0.488)	0.466	0.052
7	0.58	7.40	0.589	0.488	(0.530)	0.101
8	0.67	8.60	0.685	0.488	(0.616)	0.196
9	0.75	12.30	0.979	0.488	(0.881)	0.491
10	0.83	29.10	2.317	0.488	(2.085)	1.829
11	0.92	6.80	0.541	(0.488)	0.487	0.054
12	1.00	5.00	0.398	(0.488)	0.358	0.040
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	3.0

Flood volume = Effective rainfall 0.25(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.4(Ac.Ft)
Total soil loss = 0.42(In)
Total soil loss = 2.333(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 60006.7 Cubic Feet
Total soil loss = 101616.9 Cubic Feet

Peak flow rate of this hydrograph = 46.983(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0010	0.15	Q				

3828EX515

0+10	0.0064	0.79	Q	|	|	|	|	|
0+15	0.0166	1.47	VQ	|	|	|	|	|
0+20	0.0295	1.87	VQ	|	|	|	|	|
0+25	0.0444	2.16	|Q	|	|	|	|	|
0+30	0.0613	2.46	|Q	|	|	|	|	|
0+35	0.0821	3.01	| Q	|	|	|	|	|
0+40	0.1138	4.60	| Q	|	|	|	|	|
0+45	0.1744	8.81	| V Q	|	|	|	|	|
0+50	0.3307	22.69	| V|	Q |	|	|	|	|
0+55	0.6543	46.98	|	V |	|	|	Q	|
1+ 0	0.9442	42.10	|	|	V	|	Q	|
1+ 5	1.0830	20.15	|	Q |	|	|V	|	|
1+10	1.1636	11.70	|	Q|	|	|	V	|
1+15	1.2183	7.95	|	Q |	|	|	V	|
1+20	1.2577	5.71	|	Q |	|	|	V	|
1+25	1.2871	4.27	|	Q |	|	|	V	|
1+30	1.3092	3.21	|	Q |	|	|	V	|
1+35	1.3275	2.66	|	Q |	|	|	V	|
1+40	1.3417	2.06	|	Q |	|	|	V	|
1+45	1.3528	1.61	|	Q |	|	|	V	|
1+50	1.3613	1.24	|	Q |	|	|	V	|
1+55	1.3678	0.95	|	Q |	|	|	V	|
2+ 0	1.3735	0.82	|	Q |	|	|	V	|
2+ 5	1.3773	0.55	|	Q |	|	|	V	|
2+10	1.3775	0.03	|	Q |	|	|	V	|
2+15	1.3776	0.01	|	Q |	|	|	|	V

3828EX535

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX535.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.488)	0.147	0.016
2	0.17	1.30	0.163	(0.488)	0.147	0.016
3	0.25	1.10	0.138	(0.488)	0.124	0.014
4	0.33	1.50	0.189	(0.488)	0.170	0.019
5	0.42	1.50	0.189	(0.488)	0.170	0.019
6	0.50	1.80	0.226	(0.488)	0.204	0.023
7	0.58	1.50	0.189	(0.488)	0.170	0.019
8	0.67	1.80	0.226	(0.488)	0.204	0.023
9	0.75	1.80	0.226	(0.488)	0.204	0.023
10	0.83	1.50	0.189	(0.488)	0.170	0.019
11	0.92	1.60	0.201	(0.488)	0.181	0.020
12	1.00	1.80	0.226	(0.488)	0.204	0.023
13	1.08	2.20	0.277	(0.488)	0.249	0.028
14	1.17	2.20	0.277	(0.488)	0.249	0.028
15	1.25	2.20	0.277	(0.488)	0.249	0.028
16	1.33	2.00	0.252	(0.488)	0.226	0.025
17	1.42	2.60	0.327	(0.488)	0.294	0.033
18	1.50	2.70	0.340	(0.488)	0.306	0.034
19	1.58	2.40	0.302	(0.488)	0.272	0.030
20	1.67	2.70	0.340	(0.488)	0.306	0.034
21	1.75	3.30	0.415	(0.488)	0.373	0.041
22	1.83	3.10	0.390	(0.488)	0.351	0.039
23	1.92	2.90	0.365	(0.488)	0.328	0.036
24	2.00	3.00	0.377	(0.488)	0.340	0.038
25	2.08	3.10	0.390	(0.488)	0.351	0.039
26	2.17	4.20	0.528	(0.488)	0.475	0.053
27	2.25	5.00	0.629	0.488	(0.566)	0.140
28	2.33	3.50	0.440	(0.488)	0.396	0.044
29	2.42	6.80	0.855	0.488	(0.770)	0.367
30	2.50	7.30	0.918	0.488	(0.826)	0.430
31	2.58	8.20	1.031	0.488	(0.928)	0.543
32	2.67	5.90	0.742	0.488	(0.668)	0.254
33	2.75	2.00	0.252	(0.488)	0.226	0.025
34	2.83	1.80	0.226	(0.488)	0.204	0.023
35	2.92	1.80	0.226	(0.488)	0.204	0.023
36	3.00	0.60	0.075	(0.488)	0.068	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.6

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 0.21(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 0.83(In)
Total soil loss = 4.661(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 52233.5 Cubic Feet
Total soil loss = 203023.7 Cubic Feet

Peak flow rate of this hydrograph = 23.769(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0005	0.07	Q				
0+10	0.0031	0.38	Q				
0+15	0.0079	0.69	Q				
0+20	0.0134	0.80	VQ				
0+25	0.0197	0.92	VQ				
0+30	0.0270	1.06	VQ				
0+35	0.0351	1.18	|Q				
0+40	0.0437	1.24	|Q				
0+45	0.0527	1.30	|Q				
0+50	0.0621	1.37	|QV				
0+55	0.0714	1.35	|QV				
1+ 0	0.0806	1.34	|QV				
1+ 5	0.0903	1.42	|Q V				
1+10	0.1012	1.57	| QV				
1+15	0.1129	1.70	| QV				
1+20	0.1249	1.75	| Q V				
1+25	0.1370	1.76	| Q V				
1+30	0.1500	1.88	| Q V				
1+35	0.1640	2.03	| Q V				
1+40	0.1782	2.07	| Q V				
1+45	0.1930	2.14	| Q V				
1+50	0.2092	2.35	| Q V				
1+55	0.2262	2.47	| Q V				
2+ 0	0.2431	2.46	| Q V				
2+ 5	0.2601	2.47	| Q V				
2+10	0.2779	2.58	| Q V|				
2+15	0.3005	3.28	| Q V				
2+20	0.3336	4.80	| Q |V				
2+25	0.3765	6.23	| Q | V				
2+30	0.4562	11.57	| Q				
2+35	0.5881	19.15	| V| Q				
2+40	0.7518	23.77	| V |Q				
2+45	0.8986	21.32	| QV|				
2+50	0.9919	13.55	| Q | V				
2+55	1.0477	8.09	| Q | V				
3+ 0	1.0878	5.82	| Q | V				
3+ 5	1.1173	4.29	| Q | V				
3+10	1.1385	3.08	| Q | V				
3+15	1.1540	2.26	| Q | V				
3+20	1.1661	1.76	| Q | V				
3+25	1.1756	1.38	|Q | V|				
3+30	1.1829	1.06	|Q | V|				
3+35	1.1885	0.81	|Q | V|				
3+40	1.1929	0.65	Q | V|				
3+45	1.1961	0.46	Q | V|				
3+50	1.1980	0.28	Q | V|				
3+55	1.1987	0.10	Q | V|				
4+ 0	1.1989	0.03	Q | V|				
4+ 5	1.1990	0.02	Q | V|				
4+10	1.1991	0.01	Q | V|				
4+15	1.1991	0.00	Q | V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX565.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

 English (in-lb) Input Units Used
 English Rainfall Data (Inches) Input Values Used

 English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

 Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.488)	0.079	0.009
2	0.17	0.60	0.106	(0.488)	0.095	0.011
3	0.25	0.60	0.106	(0.488)	0.095	0.011
4	0.33	0.60	0.106	(0.488)	0.095	0.011
5	0.42	0.60	0.106	(0.488)	0.095	0.011
6	0.50	0.70	0.123	(0.488)	0.111	0.012
7	0.58	0.70	0.123	(0.488)	0.111	0.012
8	0.67	0.70	0.123	(0.488)	0.111	0.012
9	0.75	0.70	0.123	(0.488)	0.111	0.012
10	0.83	0.70	0.123	(0.488)	0.111	0.012
11	0.92	0.70	0.123	(0.488)	0.111	0.012
12	1.00	0.80	0.141	(0.488)	0.127	0.014
13	1.08	0.80	0.141	(0.488)	0.127	0.014
14	1.17	0.80	0.141	(0.488)	0.127	0.014
15	1.25	0.80	0.141	(0.488)	0.127	0.014
16	1.33	0.80	0.141	(0.488)	0.127	0.014
17	1.42	0.80	0.141	(0.488)	0.127	0.014
18	1.50	0.80	0.141	(0.488)	0.127	0.014
19	1.58	0.80	0.141	(0.488)	0.127	0.014
20	1.67	0.80	0.141	(0.488)	0.127	0.014
21	1.75	0.80	0.141	(0.488)	0.127	0.014
22	1.83	0.80	0.141	(0.488)	0.127	0.014
23	1.92	0.80	0.141	(0.488)	0.127	0.014
24	2.00	0.90	0.158	(0.488)	0.142	0.016
25	2.08	0.80	0.141	(0.488)	0.127	0.014
26	2.17	0.90	0.158	(0.488)	0.142	0.016
27	2.25	0.90	0.158	(0.488)	0.142	0.016
28	2.33	0.90	0.158	(0.488)	0.142	0.016
29	2.42	0.90	0.158	(0.488)	0.142	0.016
30	2.50	0.90	0.158	(0.488)	0.142	0.016
31	2.58	0.90	0.158	(0.488)	0.142	0.016
32	2.67	0.90	0.158	(0.488)	0.142	0.016
33	2.75	1.00	0.176	(0.488)	0.158	0.018
34	2.83	1.00	0.176	(0.488)	0.158	0.018
35	2.92	1.00	0.176	(0.488)	0.158	0.018
36	3.00	1.00	0.176	(0.488)	0.158	0.018
37	3.08	1.00	0.176	(0.488)	0.158	0.018
38	3.17	1.10	0.193	(0.488)	0.174	0.019

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.193	(	0.488)	0.174	0.019
40	3.33	1.10	0.193	(	0.488)	0.174	0.019
41	3.42	1.20	0.211	(	0.488)	0.190	0.021
42	3.50	1.30	0.229	(	0.488)	0.206	0.023
43	3.58	1.40	0.246	(	0.488)	0.222	0.025
44	3.67	1.40	0.246	(	0.488)	0.222	0.025
45	3.75	1.50	0.264	(	0.488)	0.237	0.026
46	3.83	1.50	0.264	(	0.488)	0.237	0.026
47	3.92	1.60	0.281	(	0.488)	0.253	0.028
48	4.00	1.60	0.281	(	0.488)	0.253	0.028
49	4.08	1.70	0.299	(	0.488)	0.269	0.030
50	4.17	1.80	0.317	(	0.488)	0.285	0.032
51	4.25	1.90	0.334	(	0.488)	0.301	0.033
52	4.33	2.00	0.352	(	0.488)	0.317	0.035
53	4.42	2.10	0.369	(	0.488)	0.332	0.037
54	4.50	2.10	0.369	(	0.488)	0.332	0.037
55	4.58	2.20	0.387	(	0.488)	0.348	0.039
56	4.67	2.30	0.405	(	0.488)	0.364	0.040
57	4.75	2.40	0.422	(	0.488)	0.380	0.042
58	4.83	2.40	0.422	(	0.488)	0.380	0.042
59	4.92	2.50	0.440	(	0.488)	0.396	0.044
60	5.00	2.60	0.457	(	0.488)	0.412	0.046
61	5.08	3.10	0.545		0.488	(0.491)	0.057
62	5.17	3.60	0.633		0.488	(0.570)	0.145
63	5.25	3.90	0.686		0.488	(0.617)	0.198
64	5.33	4.20	0.739		0.488	(0.665)	0.250
65	5.42	4.70	0.827		0.488	(0.744)	0.338
66	5.50	5.60	0.985		0.488	(0.887)	0.497
67	5.58	1.90	0.334	(	0.488)	0.301	0.033
68	5.67	0.90	0.158	(	0.488)	0.142	0.016
69	5.75	0.60	0.106	(	0.488)	0.095	0.011
70	5.83	0.50	0.088	(	0.488)	0.079	0.009
71	5.92	0.30	0.053	(	0.488)	0.047	0.005
72	6.00	0.20	0.035	(	0.488)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.8

Flood volume = Effective rainfall 0.23(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 1.23(In)
Total soil loss = 6.891(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 56885.3 Cubic Feet
Total soil loss = 300159.7 Cubic Feet

Peak flow rate of this hydrograph = 19.934(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0003	0.04	Q				
0+10	0.0017	0.21	Q				
0+15	0.0046	0.42	Q				
0+20	0.0082	0.52	VQ				
0+25	0.0122	0.58	VQ				
0+30	0.0165	0.62	VQ				
0+35	0.0212	0.68	VQ				
0+40	0.0262	0.73	VQ				
0+45	0.0314	0.76	VQ				
0+50	0.0368	0.78	|Q				
0+55	0.0422	0.79	|Q				
1+ 0	0.0478	0.81	|Q				
1+ 5	0.0537	0.85	|Q				
1+10	0.0599	0.89	|Q				
1+15	0.0662	0.91	|QV				
1+20	0.0726	0.93	|QV				
1+25	0.0790	0.93	|QV				
1+30	0.0854	0.94	|QV				
1+35	0.0919	0.94	|QV				
1+40	0.0984	0.94	|Q V				
1+45	0.1050	0.95	|Q V				
1+50	0.1115	0.95	|Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX565

1+55	0.1180	0.95	Q V
2+ 0	0.1246	0.96	Q V
2+ 5	0.1314	0.98	Q V
2+10	0.1383	0.99	Q V
2+15	0.1452	1.01	Q V
2+20	0.1523	1.04	Q V
2+25	0.1595	1.05	Q V
2+30	0.1668	1.05	Q V
2+35	0.1741	1.06	Q V
2+40	0.1814	1.06	Q V
2+45	0.1888	1.07	Q V
2+50	0.1964	1.11	Q V
2+55	0.2043	1.14	Q V
3+ 0	0.2122	1.16	Q V
3+ 5	0.2203	1.17	Q V
3+10	0.2284	1.18	Q V
3+15	0.2368	1.22	Q V
3+20	0.2454	1.26	Q V
3+25	0.2543	1.28	Q V
3+30	0.2634	1.33	Q V
3+35	0.2732	1.41	Q V
3+40	0.2835	1.50	Q V
3+45	0.2943	1.57	Q V
3+50	0.3056	1.63	Q V
3+55	0.3172	1.69	Q V
4+ 0	0.3293	1.76	Q V
4+ 5	0.3418	1.82	Q V
4+10	0.3548	1.88	Q V
4+15	0.3684	1.98	Q V
4+20	0.3828	2.08	Q V
4+25	0.3978	2.19	Q V
4+30	0.4136	2.29	Q V
4+35	0.4299	2.37	Q V
4+40	0.4468	2.45	Q V
4+45	0.4644	2.55	Q V
4+50	0.4827	2.65	Q V
4+55	0.5015	2.73	Q V
5+ 0	0.5208	2.81	Q V
5+ 5	0.5411	2.95	Q V
5+10	0.5661	3.62	Q V
5+15	0.6059	5.78	Q V
5+20	0.6668	8.83	Q V
5+25	0.7497	12.04	V Q
5+30	0.8620	16.31	V Q
5+35	0.9993	19.93	V Q
5+40	1.1057	15.46	Q V
5+45	1.1629	8.29	Q V
5+50	1.1996	5.34	Q V
5+55	1.2266	3.92	Q V
6+ 0	1.2469	2.95	Q V
6+ 5	1.2623	2.24	Q V
6+10	1.2739	1.68	Q V
6+15	1.2829	1.31	Q V
6+20	1.2898	1.00	Q V
6+25	1.2951	0.78	Q V
6+30	1.2991	0.58	Q V
6+35	1.3021	0.43	Q V
6+40	1.3043	0.31	Q V
6+45	1.3055	0.18	Q V
6+50	1.3057	0.03	Q V
6+55	1.3058	0.02	Q V
7+ 0	1.3058	0.01	Q V
7+ 5	1.3059	0.01	Q V
7+10	1.3059	0.00	Q V
7+15	1.3059	0.00	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX5245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX5245

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.866)	0.017	0.002
2	0.17	0.07	0.019	(0.862)	0.017	0.002
3	0.25	0.07	0.019	(0.859)	0.017	0.002
4	0.33	0.10	0.029	(0.856)	0.026	0.003
5	0.42	0.10	0.029	(0.852)	0.026	0.003
6	0.50	0.10	0.029	(0.849)	0.026	0.003
7	0.58	0.10	0.029	(0.846)	0.026	0.003
8	0.67	0.10	0.029	(0.842)	0.026	0.003
9	0.75	0.10	0.029	(0.839)	0.026	0.003
10	0.83	0.13	0.038	(0.836)	0.034	0.004
11	0.92	0.13	0.038	(0.833)	0.034	0.004
12	1.00	0.13	0.038	(0.829)	0.034	0.004
13	1.08	0.10	0.029	(0.826)	0.026	0.003
14	1.17	0.10	0.029	(0.823)	0.026	0.003
15	1.25	0.10	0.029	(0.819)	0.026	0.003
16	1.33	0.10	0.029	(0.816)	0.026	0.003
17	1.42	0.10	0.029	(0.813)	0.026	0.003
18	1.50	0.10	0.029	(0.810)	0.026	0.003
19	1.58	0.10	0.029	(0.806)	0.026	0.003
20	1.67	0.10	0.029	(0.803)	0.026	0.003
21	1.75	0.10	0.029	(0.800)	0.026	0.003
22	1.83	0.13	0.038	(0.797)	0.034	0.004
23	1.92	0.13	0.038	(0.794)	0.034	0.004
24	2.00	0.13	0.038	(0.790)	0.034	0.004
25	2.08	0.13	0.038	(0.787)	0.034	0.004
26	2.17	0.13	0.038	(0.784)	0.034	0.004
27	2.25	0.13	0.038	(0.781)	0.034	0.004
28	2.33	0.13	0.038	(0.778)	0.034	0.004
29	2.42	0.13	0.038	(0.774)	0.034	0.004
30	2.50	0.13	0.038	(0.771)	0.034	0.004
31	2.58	0.17	0.048	(0.768)	0.043	0.005
32	2.67	0.17	0.048	(0.765)	0.043	0.005
33	2.75	0.17	0.048	(0.762)	0.043	0.005
34	2.83	0.17	0.048	(0.759)	0.043	0.005
35	2.92	0.17	0.048	(0.756)	0.043	0.005
36	3.00	0.17	0.048	(0.752)	0.043	0.005
37	3.08	0.17	0.048	(0.749)	0.043	0.005
38	3.17	0.17	0.048	(0.746)	0.043	0.005

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.048	(0.743)	0.043	0.005
40	3.33	0.17	0.048	(0.740)	0.043	0.005
41	3.42	0.17	0.048	(0.737)	0.043	0.005
42	3.50	0.17	0.048	(0.734)	0.043	0.005
43	3.58	0.17	0.048	(0.731)	0.043	0.005
44	3.67	0.17	0.048	(0.728)	0.043	0.005
45	3.75	0.17	0.048	(0.725)	0.043	0.005
46	3.83	0.20	0.057	(0.722)	0.052	0.006
47	3.92	0.20	0.057	(0.719)	0.052	0.006
48	4.00	0.20	0.057	(0.715)	0.052	0.006
49	4.08	0.20	0.057	(0.712)	0.052	0.006
50	4.17	0.20	0.057	(0.709)	0.052	0.006
51	4.25	0.20	0.057	(0.706)	0.052	0.006
52	4.33	0.23	0.067	(0.703)	0.060	0.007
53	4.42	0.23	0.067	(0.700)	0.060	0.007
54	4.50	0.23	0.067	(0.697)	0.060	0.007
55	4.58	0.23	0.067	(0.694)	0.060	0.007
56	4.67	0.23	0.067	(0.691)	0.060	0.007
57	4.75	0.23	0.067	(0.688)	0.060	0.007
58	4.83	0.27	0.077	(0.685)	0.069	0.008
59	4.92	0.27	0.077	(0.683)	0.069	0.008
60	5.00	0.27	0.077	(0.680)	0.069	0.008
61	5.08	0.20	0.057	(0.677)	0.052	0.006
62	5.17	0.20	0.057	(0.674)	0.052	0.006
63	5.25	0.20	0.057	(0.671)	0.052	0.006
64	5.33	0.23	0.067	(0.668)	0.060	0.007
65	5.42	0.23	0.067	(0.665)	0.060	0.007
66	5.50	0.23	0.067	(0.662)	0.060	0.007
67	5.58	0.27	0.077	(0.659)	0.069	0.008
68	5.67	0.27	0.077	(0.656)	0.069	0.008
69	5.75	0.27	0.077	(0.653)	0.069	0.008
70	5.83	0.27	0.077	(0.650)	0.069	0.008
71	5.92	0.27	0.077	(0.647)	0.069	0.008
72	6.00	0.27	0.077	(0.645)	0.069	0.008
73	6.08	0.30	0.086	(0.642)	0.078	0.009
74	6.17	0.30	0.086	(0.639)	0.078	0.009
75	6.25	0.30	0.086	(0.636)	0.078	0.009
76	6.33	0.30	0.086	(0.633)	0.078	0.009
77	6.42	0.30	0.086	(0.630)	0.078	0.009
78	6.50	0.30	0.086	(0.628)	0.078	0.009
79	6.58	0.33	0.096	(0.625)	0.086	0.010
80	6.67	0.33	0.096	(0.622)	0.086	0.010
81	6.75	0.33	0.096	(0.619)	0.086	0.010
82	6.83	0.33	0.096	(0.616)	0.086	0.010
83	6.92	0.33	0.096	(0.614)	0.086	0.010
84	7.00	0.33	0.096	(0.611)	0.086	0.010
85	7.08	0.33	0.096	(0.608)	0.086	0.010
86	7.17	0.33	0.096	(0.605)	0.086	0.010
87	7.25	0.33	0.096	(0.602)	0.086	0.010
88	7.33	0.37	0.105	(0.600)	0.095	0.011
89	7.42	0.37	0.105	(0.597)	0.095	0.011
90	7.50	0.37	0.105	(0.594)	0.095	0.011
91	7.58	0.40	0.115	(0.591)	0.103	0.011
92	7.67	0.40	0.115	(0.589)	0.103	0.011
93	7.75	0.40	0.115	(0.586)	0.103	0.011
94	7.83	0.43	0.124	(0.583)	0.112	0.012
95	7.92	0.43	0.124	(0.581)	0.112	0.012
96	8.00	0.43	0.124	(0.578)	0.112	0.012
97	8.08	0.50	0.144	(0.575)	0.129	0.014
98	8.17	0.50	0.144	(0.573)	0.129	0.014
99	8.25	0.50	0.144	(0.570)	0.129	0.014
100	8.33	0.50	0.144	(0.567)	0.129	0.014
101	8.42	0.50	0.144	(0.565)	0.129	0.014
102	8.50	0.50	0.144	(0.562)	0.129	0.014
103	8.58	0.53	0.153	(0.559)	0.138	0.015
104	8.67	0.53	0.153	(0.557)	0.138	0.015
105	8.75	0.53	0.153	(0.554)	0.138	0.015
106	8.83	0.57	0.163	(0.551)	0.147	0.016
107	8.92	0.57	0.163	(0.549)	0.147	0.016
108	9.00	0.57	0.163	(0.546)	0.147	0.016
109	9.08	0.63	0.182	(0.544)	0.164	0.018
110	9.17	0.63	0.182	(0.541)	0.164	0.018
111	9.25	0.63	0.182	(0.539)	0.164	0.018
112	9.33	0.67	0.192	(0.536)	0.172	0.019
113	9.42	0.67	0.192	(0.533)	0.172	0.019
114	9.50	0.67	0.192	(0.531)	0.172	0.019
115	9.58	0.70	0.201	(0.528)	0.181	0.020

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

116	9.67	0.70	0.201	(0.526)	0.181	0.020
117	9.75	0.70	0.201	(0.523)	0.181	0.020
118	9.83	0.73	0.211	(0.521)	0.190	0.021
119	9.92	0.73	0.211	(0.518)	0.190	0.021
120	10.00	0.73	0.211	(0.516)	0.190	0.021
121	10.08	0.50	0.144	(0.513)	0.129	0.014
122	10.17	0.50	0.144	(0.511)	0.129	0.014
123	10.25	0.50	0.144	(0.508)	0.129	0.014
124	10.33	0.50	0.144	(0.506)	0.129	0.014
125	10.42	0.50	0.144	(0.503)	0.129	0.014
126	10.50	0.50	0.144	(0.501)	0.129	0.014
127	10.58	0.67	0.192	(0.498)	0.172	0.019
128	10.67	0.67	0.192	(0.496)	0.172	0.019
129	10.75	0.67	0.192	(0.494)	0.172	0.019
130	10.83	0.67	0.192	(0.491)	0.172	0.019
131	10.92	0.67	0.192	(0.489)	0.172	0.019
132	11.00	0.67	0.192	(0.486)	0.172	0.019
133	11.08	0.63	0.182	(0.484)	0.164	0.018
134	11.17	0.63	0.182	(0.482)	0.164	0.018
135	11.25	0.63	0.182	(0.479)	0.164	0.018
136	11.33	0.63	0.182	(0.477)	0.164	0.018
137	11.42	0.63	0.182	(0.474)	0.164	0.018
138	11.50	0.63	0.182	(0.472)	0.164	0.018
139	11.58	0.57	0.163	(0.470)	0.147	0.016
140	11.67	0.57	0.163	(0.467)	0.147	0.016
141	11.75	0.57	0.163	(0.465)	0.147	0.016
142	11.83	0.60	0.172	(0.463)	0.155	0.017
143	11.92	0.60	0.172	(0.460)	0.155	0.017
144	12.00	0.60	0.172	(0.458)	0.155	0.017
145	12.08	0.83	0.239	(0.456)	0.215	0.024
146	12.17	0.83	0.239	(0.454)	0.215	0.024
147	12.25	0.83	0.239	(0.451)	0.215	0.024
148	12.33	0.87	0.249	(0.449)	0.224	0.025
149	12.42	0.87	0.249	(0.447)	0.224	0.025
150	12.50	0.87	0.249	(0.445)	0.224	0.025
151	12.58	0.93	0.268	(0.442)	0.241	0.027
152	12.67	0.93	0.268	(0.440)	0.241	0.027
153	12.75	0.93	0.268	(0.438)	0.241	0.027
154	12.83	0.97	0.278	(0.436)	0.250	0.028
155	12.92	0.97	0.278	(0.433)	0.250	0.028
156	13.00	0.97	0.278	(0.431)	0.250	0.028
157	13.08	1.13	0.326	(0.429)	0.293	0.033
158	13.17	1.13	0.326	(0.427)	0.293	0.033
159	13.25	1.13	0.326	(0.425)	0.293	0.033
160	13.33	1.13	0.326	(0.423)	0.293	0.033
161	13.42	1.13	0.326	(0.420)	0.293	0.033
162	13.50	1.13	0.326	(0.418)	0.293	0.033
163	13.58	0.77	0.220	(0.416)	0.198	0.022
164	13.67	0.77	0.220	(0.414)	0.198	0.022
165	13.75	0.77	0.220	(0.412)	0.198	0.022
166	13.83	0.77	0.220	(0.410)	0.198	0.022
167	13.92	0.77	0.220	(0.408)	0.198	0.022
168	14.00	0.77	0.220	(0.406)	0.198	0.022
169	14.08	0.90	0.259	(0.404)	0.233	0.026
170	14.17	0.90	0.259	(0.402)	0.233	0.026
171	14.25	0.90	0.259	(0.399)	0.233	0.026
172	14.33	0.87	0.249	(0.397)	0.224	0.025
173	14.42	0.87	0.249	(0.395)	0.224	0.025
174	14.50	0.87	0.249	(0.393)	0.224	0.025
175	14.58	0.87	0.249	(0.391)	0.224	0.025
176	14.67	0.87	0.249	(0.389)	0.224	0.025
177	14.75	0.87	0.249	(0.387)	0.224	0.025
178	14.83	0.83	0.239	(0.385)	0.215	0.024
179	14.92	0.83	0.239	(0.383)	0.215	0.024
180	15.00	0.83	0.239	(0.381)	0.215	0.024
181	15.08	0.80	0.230	(0.379)	0.207	0.023
182	15.17	0.80	0.230	(0.378)	0.207	0.023
183	15.25	0.80	0.230	(0.376)	0.207	0.023
184	15.33	0.77	0.220	(0.374)	0.198	0.022
185	15.42	0.77	0.220	(0.372)	0.198	0.022
186	15.50	0.77	0.220	(0.370)	0.198	0.022
187	15.58	0.63	0.182	(0.368)	0.164	0.018
188	15.67	0.63	0.182	(0.366)	0.164	0.018
189	15.75	0.63	0.182	(0.364)	0.164	0.018
190	15.83	0.63	0.182	(0.362)	0.164	0.018
191	15.92	0.63	0.182	(0.360)	0.164	0.018
192	16.00	0.63	0.182	(0.359)	0.164	0.018

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.038	(0.357)	0.034	0.004
194	16.17	0.13	0.038	(0.355)	0.034	0.004
195	16.25	0.13	0.038	(0.353)	0.034	0.004
196	16.33	0.13	0.038	(0.351)	0.034	0.004
197	16.42	0.13	0.038	(0.350)	0.034	0.004
198	16.50	0.13	0.038	(0.348)	0.034	0.004
199	16.58	0.10	0.029	(0.346)	0.026	0.003
200	16.67	0.10	0.029	(0.344)	0.026	0.003
201	16.75	0.10	0.029	(0.343)	0.026	0.003
202	16.83	0.10	0.029	(0.341)	0.026	0.003
203	16.92	0.10	0.029	(0.339)	0.026	0.003
204	17.00	0.10	0.029	(0.337)	0.026	0.003
205	17.08	0.17	0.048	(0.336)	0.043	0.005
206	17.17	0.17	0.048	(0.334)	0.043	0.005
207	17.25	0.17	0.048	(0.332)	0.043	0.005
208	17.33	0.17	0.048	(0.331)	0.043	0.005
209	17.42	0.17	0.048	(0.329)	0.043	0.005
210	17.50	0.17	0.048	(0.327)	0.043	0.005
211	17.58	0.17	0.048	(0.326)	0.043	0.005
212	17.67	0.17	0.048	(0.324)	0.043	0.005
213	17.75	0.17	0.048	(0.322)	0.043	0.005
214	17.83	0.13	0.038	(0.321)	0.034	0.004
215	17.92	0.13	0.038	(0.319)	0.034	0.004
216	18.00	0.13	0.038	(0.318)	0.034	0.004
217	18.08	0.13	0.038	(0.316)	0.034	0.004
218	18.17	0.13	0.038	(0.315)	0.034	0.004
219	18.25	0.13	0.038	(0.313)	0.034	0.004
220	18.33	0.13	0.038	(0.311)	0.034	0.004
221	18.42	0.13	0.038	(0.310)	0.034	0.004
222	18.50	0.13	0.038	(0.308)	0.034	0.004
223	18.58	0.10	0.029	(0.307)	0.026	0.003
224	18.67	0.10	0.029	(0.305)	0.026	0.003
225	18.75	0.10	0.029	(0.304)	0.026	0.003
226	18.83	0.07	0.019	(0.303)	0.017	0.002
227	18.92	0.07	0.019	(0.301)	0.017	0.002
228	19.00	0.07	0.019	(0.300)	0.017	0.002
229	19.08	0.10	0.029	(0.298)	0.026	0.003
230	19.17	0.10	0.029	(0.297)	0.026	0.003
231	19.25	0.10	0.029	(0.295)	0.026	0.003
232	19.33	0.13	0.038	(0.294)	0.034	0.004
233	19.42	0.13	0.038	(0.293)	0.034	0.004
234	19.50	0.13	0.038	(0.291)	0.034	0.004
235	19.58	0.10	0.029	(0.290)	0.026	0.003
236	19.67	0.10	0.029	(0.289)	0.026	0.003
237	19.75	0.10	0.029	(0.287)	0.026	0.003
238	19.83	0.07	0.019	(0.286)	0.017	0.002
239	19.92	0.07	0.019	(0.285)	0.017	0.002
240	20.00	0.07	0.019	(0.284)	0.017	0.002
241	20.08	0.10	0.029	(0.282)	0.026	0.003
242	20.17	0.10	0.029	(0.281)	0.026	0.003
243	20.25	0.10	0.029	(0.280)	0.026	0.003
244	20.33	0.10	0.029	(0.279)	0.026	0.003
245	20.42	0.10	0.029	(0.277)	0.026	0.003
246	20.50	0.10	0.029	(0.276)	0.026	0.003
247	20.58	0.10	0.029	(0.275)	0.026	0.003
248	20.67	0.10	0.029	(0.274)	0.026	0.003
249	20.75	0.10	0.029	(0.273)	0.026	0.003
250	20.83	0.07	0.019	(0.272)	0.017	0.002
251	20.92	0.07	0.019	(0.271)	0.017	0.002
252	21.00	0.07	0.019	(0.270)	0.017	0.002
253	21.08	0.10	0.029	(0.268)	0.026	0.003
254	21.17	0.10	0.029	(0.267)	0.026	0.003
255	21.25	0.10	0.029	(0.266)	0.026	0.003
256	21.33	0.07	0.019	(0.265)	0.017	0.002
257	21.42	0.07	0.019	(0.264)	0.017	0.002
258	21.50	0.07	0.019	(0.263)	0.017	0.002
259	21.58	0.10	0.029	(0.262)	0.026	0.003
260	21.67	0.10	0.029	(0.261)	0.026	0.003
261	21.75	0.10	0.029	(0.261)	0.026	0.003
262	21.83	0.07	0.019	(0.260)	0.017	0.002
263	21.92	0.07	0.019	(0.259)	0.017	0.002
264	22.00	0.07	0.019	(0.258)	0.017	0.002
265	22.08	0.10	0.029	(0.257)	0.026	0.003
266	22.17	0.10	0.029	(0.256)	0.026	0.003
267	22.25	0.10	0.029	(0.255)	0.026	0.003
268	22.33	0.07	0.019	(0.255)	0.017	0.002
269	22.42	0.07	0.019	(0.254)	0.017	0.002

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.019	(0.253)	0.017	0.002
271	22.58	0.07	0.019	(0.252)	0.017	0.002
272	22.67	0.07	0.019	(0.252)	0.017	0.002
273	22.75	0.07	0.019	(0.251)	0.017	0.002
274	22.83	0.07	0.019	(0.250)	0.017	0.002
275	22.92	0.07	0.019	(0.250)	0.017	0.002
276	23.00	0.07	0.019	(0.249)	0.017	0.002
277	23.08	0.07	0.019	(0.248)	0.017	0.002
278	23.17	0.07	0.019	(0.248)	0.017	0.002
279	23.25	0.07	0.019	(0.247)	0.017	0.002
280	23.33	0.07	0.019	(0.247)	0.017	0.002
281	23.42	0.07	0.019	(0.246)	0.017	0.002
282	23.50	0.07	0.019	(0.246)	0.017	0.002
283	23.58	0.07	0.019	(0.246)	0.017	0.002
284	23.67	0.07	0.019	(0.245)	0.017	0.002
285	23.75	0.07	0.019	(0.245)	0.017	0.002
286	23.83	0.07	0.019	(0.245)	0.017	0.002
287	23.92	0.07	0.019	(0.244)	0.017	0.002
288	24.00	0.07	0.019	(0.244)	0.017	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 2.15(In)
Total soil loss = 12.047(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 58306.6 Cubic Feet
Total soil loss = 524759.2 Cubic Feet

Peak flow rate of this hydrograph = 2.152(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0009	0.08	Q				
0+20	0.0016	0.10	Q				
0+25	0.0025	0.13	Q				
0+30	0.0036	0.15	Q				
0+35	0.0047	0.17	Q				
0+40	0.0059	0.17	Q				
0+45	0.0071	0.18	Q				
0+50	0.0084	0.19	Q				
0+55	0.0098	0.21	Q				
1+ 0	0.0114	0.23	Q				
1+ 5	0.0130	0.23	Q				
1+10	0.0146	0.22	Q				
1+15	0.0160	0.21	Q				
1+20	0.0174	0.20	Q				
1+25	0.0188	0.20	Q				
1+30	0.0201	0.20	Q				
1+35	0.0215	0.20	Q				
1+40	0.0229	0.20	Q				
1+45	0.0242	0.20	Q				
1+50	0.0256	0.20	Q				
1+55	0.0271	0.22	Q				
2+ 0	0.0287	0.24	Q				
2+ 5	0.0304	0.24	Q				
2+10	0.0321	0.25	Q				
2+15	0.0338	0.25	|Q				
2+20	0.0356	0.25	|Q				
2+25	0.0373	0.25	|Q				
2+30	0.0391	0.26	|Q				
2+35	0.0409	0.26	|Q				
2+40	0.0428	0.28	|Q				
2+45	0.0449	0.30	|Q				
2+50	0.0470	0.31	|Q				
2+55	0.0491	0.31	|Q				
3+ 0	0.0513	0.31	|Q				
3+ 5	0.0535	0.32	|Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.0557	0.32	Q				
3+15	0.0579	0.32	Q				
3+20	0.0601	0.32	Q				
3+25	0.0623	0.32	Q				
3+30	0.0645	0.32	Q				
3+35	0.0668	0.32	Q				
3+40	0.0690	0.32	QV				
3+45	0.0712	0.32	QV				
3+50	0.0735	0.33	QV				
3+55	0.0759	0.35	QV				
4+ 0	0.0784	0.36	QV				
4+ 5	0.0809	0.37	QV				
4+10	0.0835	0.38	QV				
4+15	0.0862	0.38	QV				
4+20	0.0888	0.39	QV				
4+25	0.0916	0.41	QV				
4+30	0.0945	0.43	QV				
4+35	0.0975	0.43	QV				
4+40	0.1006	0.44	Q V				
4+45	0.1036	0.44	Q V				
4+50	0.1067	0.45	Q V				
4+55	0.1100	0.47	Q V				
5+ 0	0.1133	0.49	Q V				
5+ 5	0.1167	0.49	Q V				
5+10	0.1199	0.46	Q V				
5+15	0.1228	0.43	Q V				
5+20	0.1257	0.42	Q V				
5+25	0.1286	0.43	Q V				
5+30	0.1317	0.44	Q V				
5+35	0.1348	0.45	Q V				
5+40	0.1381	0.47	Q V				
5+45	0.1415	0.49	Q V				
5+50	0.1449	0.50	Q V				
5+55	0.1484	0.51	Q V				
6+ 0	0.1519	0.51	Q V				
6+ 5	0.1554	0.52	Q V				
6+10	0.1591	0.53	Q V				
6+15	0.1629	0.55	Q V				
6+20	0.1668	0.56	Q V				
6+25	0.1707	0.57	Q V				
6+30	0.1747	0.57	Q V				
6+35	0.1787	0.58	Q V				
6+40	0.1828	0.60	Q V				
6+45	0.1871	0.62	Q V				
6+50	0.1914	0.63	Q V				
6+55	0.1958	0.63	Q V				
7+ 0	0.2002	0.64	Q V				
7+ 5	0.2046	0.64	Q V				
7+10	0.2090	0.64	Q V				
7+15	0.2134	0.64	Q V				
7+20	0.2179	0.65	Q V				
7+25	0.2225	0.67	Q V				
7+30	0.2272	0.69	Q V				
7+35	0.2321	0.70	Q V				
7+40	0.2370	0.72	Q V				
7+45	0.2422	0.74	Q V				
7+50	0.2474	0.76	Q V				
7+55	0.2528	0.78	Q V				
8+ 0	0.2583	0.81	Q V				
8+ 5	0.2640	0.83	Q V				
8+10	0.2700	0.87	Q V				
8+15	0.2763	0.91	Q V				
8+20	0.2827	0.93	Q V				
8+25	0.2891	0.94	Q V				
8+30	0.2957	0.95	Q V				
8+35	0.3023	0.96	Q V				
8+40	0.3090	0.98	Q V				
8+45	0.3160	1.00	Q V				
8+50	0.3230	1.02	Q V				
8+55	0.3302	1.04	Q V				
9+ 0	0.3375	1.07	Q V				
9+ 5	0.3450	1.09	Q V				
9+10	0.3527	1.13	Q V				
9+15	0.3608	1.17	Q V				
9+20	0.3690	1.19	Q V				
9+25	0.3774	1.22	Q V				
9+30	0.3860	1.25	Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

9+35	0.3948	1.27	Q	V				
9+40	0.4037	1.29	Q	V				
9+45	0.4128	1.32	Q	V				
9+50	0.4220	1.34	Q	V				
9+55	0.4313	1.36	Q	V				
10+ 0	0.4409	1.39	Q	V				
10+ 5	0.4503	1.37	Q	V				
10+10	0.4589	1.25	Q	V				
10+15	0.4666	1.12	Q	V				
10+20	0.4740	1.07	Q	V				
10+25	0.4812	1.05	Q	V				
10+30	0.4883	1.03	Q	V				
10+35	0.4954	1.04	Q	V				
10+40	0.5031	1.12	Q	V				
10+45	0.5114	1.20	Q	V				
10+50	0.5199	1.23	Q	V				
10+55	0.5285	1.25	Q	V				
11+ 0	0.5372	1.26	Q	V				
11+ 5	0.5459	1.27	Q	V				
11+10	0.5546	1.25	Q	V				
11+15	0.5631	1.24	Q	V				
11+20	0.5716	1.23	Q	V				
11+25	0.5801	1.23	Q	V				
11+30	0.5885	1.23	Q	V				
11+35	0.5970	1.22	Q	V				
11+40	0.6052	1.19	Q	V				
11+45	0.6131	1.15	Q	V				
11+50	0.6209	1.14	Q	V				
11+55	0.6289	1.15	Q	V				
12+ 0	0.6369	1.16	Q	V				
12+ 5	0.6451	1.19	Q	V				
12+10	0.6542	1.32	Q	V				
12+15	0.6642	1.45	Q	V				
12+20	0.6746	1.51	Q	V				
12+25	0.6853	1.56	Q	V				
12+30	0.6963	1.60	Q	V				
12+35	0.7076	1.63	Q	V				
12+40	0.7192	1.68	Q	V				
12+45	0.7311	1.73	Q	V				
12+50	0.7432	1.76	Q	V				
12+55	0.7555	1.79	Q	V				
13+ 0	0.7681	1.82	Q	V				
13+ 5	0.7809	1.86	Q	V				
13+10	0.7944	1.96	Q	V				
13+15	0.8086	2.06	Q	V				
13+20	0.8232	2.11	Q	V				
13+25	0.8379	2.13	Q	V				
13+30	0.8527	2.15	Q	V				
13+35	0.8673	2.12	Q	V				
13+40	0.8806	1.93	Q	V				
13+45	0.8925	1.73	Q	V				
13+50	0.9039	1.65	Q	V				
13+55	0.9149	1.61	Q	V				
14+ 0	0.9258	1.58	Q	V				
14+ 5	0.9366	1.57	Q	V				
14+10	0.9479	1.63	Q	V				
14+15	0.9595	1.69	Q	V				
14+20	0.9713	1.71	Q	V				
14+25	0.9831	1.70	Q	V				
14+30	0.9947	1.69	Q	V				
14+35	1.0063	1.68	Q	V				
14+40	1.0179	1.68	Q	V				
14+45	1.0295	1.68	Q	V				
14+50	1.0410	1.68	Q	V				
14+55	1.0524	1.66	Q	V				
15+ 0	1.0637	1.64	Q	V				
15+ 5	1.0750	1.63	Q	V				
15+10	1.0860	1.61	Q	V				
15+15	1.0970	1.59	Q	V				
15+20	1.1078	1.57	Q	V				
15+25	1.1185	1.55	Q	V				
15+30	1.1290	1.53	Q	V				
15+35	1.1393	1.50	Q	V				
15+40	1.1491	1.42	Q	V				
15+45	1.1583	1.34	Q	V				
15+50	1.1673	1.31	Q	V				
15+55	1.1762	1.29	Q	V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
16+ 0       1.1849      1.27  |    Q    |         |         |    V    |
16+ 5       1.1932      1.20  |   Q     |         |         |    V    |
16+10       1.1995      0.92  |  Q      |         |         |    V    |
16+15       1.2038      0.63  | Q       |         |         |    V    |
16+20       1.2074      0.51  | Q       |         |         |     V   |
16+25       1.2104      0.44  |Q        |         |         |     V   |
16+30       1.2131      0.40  |Q        |         |         |     V   |
16+35       1.2156      0.36  |Q        |         |         |     V   |
16+40       1.2178      0.31  |Q        |         |         |     V   |
16+45       1.2197      0.28  |Q        |         |         |     V   |
16+50       1.2214      0.25  |Q        |         |         |     V   |
16+55       1.2230      0.24  Q         |         |         |     V   |
17+ 0       1.2246      0.22  Q         |         |         |     V   |
17+ 5       1.2261      0.22  Q         |         |         |     V   |
17+10       1.2279      0.25  |Q        |         |         |     V   |
17+15       1.2298      0.28  |Q        |         |         |     V   |
17+20       1.2318      0.29  |Q        |         |         |     V   |
17+25       1.2339      0.30  |Q        |         |         |     V   |
17+30       1.2360      0.31  |Q        |         |         |     V   |
17+35       1.2382      0.31  |Q        |         |         |      V  |
17+40       1.2404      0.31  |Q        |         |         |      V  |
17+45       1.2425      0.32  |Q        |         |         |      V  |
17+50       1.2447      0.31  |Q        |         |         |      V  |
17+55       1.2468      0.30  |Q        |         |         |      V  |
18+ 0       1.2487      0.28  |Q        |         |         |      V  |
18+ 5       1.2506      0.27  |Q        |         |         |      V  |
18+10       1.2524      0.27  |Q        |         |         |      V  |
18+15       1.2543      0.27  |Q        |         |         |      V  |
18+20       1.2561      0.27  |Q        |         |         |      V  |
18+25       1.2579      0.26  |Q        |         |         |      V  |
18+30       1.2597      0.26  |Q        |         |         |      V  |
18+35       1.2615      0.26  |Q        |         |         |      V  |
18+40       1.2631      0.24  Q         |         |         |      V  |
18+45       1.2647      0.22  Q         |         |         |      V  |
18+50       1.2661      0.21  Q         |         |         |      V  |
18+55       1.2673      0.18  Q         |         |         |      V  |
19+ 0       1.2685      0.16  Q         |         |         |      V  |
19+ 5       1.2695      0.16  Q         |         |         |      V  |
19+10       1.2707      0.17  Q         |         |         |      V  |
19+15       1.2720      0.18  Q         |         |         |       V |
19+20       1.2733      0.19  Q         |         |         |       V |
19+25       1.2747      0.21  Q         |         |         |       V |
19+30       1.2763      0.23  Q         |         |         |       V |
19+35       1.2780      0.24  Q         |         |         |       V |
19+40       1.2795      0.22  Q         |         |         |       V |
19+45       1.2809      0.21  Q         |         |         |       V |
19+50       1.2823      0.20  Q         |         |         |       V |
19+55       1.2835      0.18  Q         |         |         |       V |
20+ 0       1.2846      0.16  Q         |         |         |       V |
20+ 5       1.2856      0.15  Q         |         |         |       V |
20+10       1.2868      0.17  Q         |         |         |       V |
20+15       1.2880      0.18  Q         |         |         |       V |
20+20       1.2893      0.19  Q         |         |         |       V |
20+25       1.2906      0.19  Q         |         |         |       V |
20+30       1.2919      0.19  Q         |         |         |       V |
20+35       1.2933      0.19  Q         |         |         |       V |
20+40       1.2946      0.19  Q         |         |         |       V |
20+45       1.2959      0.19  Q         |         |         |       V |
20+50       1.2972      0.19  Q         |         |         |       V |
20+55       1.2984      0.17  Q         |         |         |       V |
21+ 0       1.2994      0.15  Q         |         |         |       V |
21+ 5       1.3005      0.15  Q         |         |         |       V |
21+10       1.3016      0.16  Q         |         |         |       V |
21+15       1.3028      0.18  Q         |         |         |       V |
21+20       1.3041      0.18  Q         |         |         |       V |
21+25       1.3052      0.17  Q         |         |         |        V|
21+30       1.3062      0.15  Q         |         |         |        V|
21+35       1.3072      0.15  Q         |         |         |        V|
21+40       1.3083      0.16  Q         |         |         |        V|
21+45       1.3095      0.18  Q         |         |         |        V|
21+50       1.3108      0.18  Q         |         |         |        V|
21+55       1.3119      0.16  Q         |         |         |        V|
22+ 0       1.3129      0.15  Q         |         |         |        V|
22+ 5       1.3139      0.15  Q         |         |         |        V|
22+10       1.3150      0.16  Q         |         |         |        V|
22+15       1.3162      0.18  Q         |         |         |        V|
22+20       1.3175      0.18  Q         |         |         |        V|
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX5245

22+25	1.3186	0.16	Q	|	|	|	V|
22+30	1.3196	0.15	Q	|	|	|	V|
22+35	1.3206	0.14	Q	|	|	|	V|
22+40	1.3215	0.14	Q	|	|	|	V|
22+45	1.3225	0.14	Q	|	|	|	V|
22+50	1.3234	0.13	Q	|	|	|	V|
22+55	1.3243	0.13	Q	|	|	|	V|
23+ 0	1.3252	0.13	Q	|	|	|	V|
23+ 5	1.3261	0.13	Q	|	|	|	V|
23+10	1.3270	0.13	Q	|	|	|	V|
23+15	1.3279	0.13	Q	|	|	|	V|
23+20	1.3288	0.13	Q	|	|	|	V|
23+25	1.3297	0.13	Q	|	|	|	V|
23+30	1.3306	0.13	Q	|	|	|	V|
23+35	1.3315	0.13	Q	|	|	|	V|
23+40	1.3324	0.13	Q	|	|	|	V|
23+45	1.3333	0.13	Q	|	|	|	V|
23+50	1.3342	0.13	Q	|	|	|	V|
23+55	1.3351	0.13	Q	|	|	|	V|
24+ 0	1.3360	0.13	Q	|	|	|	V|
24+ 5	1.3368	0.12	Q	|	|	|	V|
24+10	1.3374	0.08	Q	|	|	|	V|
24+15	1.3377	0.05	Q	|	|	|	V|
24+20	1.3379	0.03	Q	|	|	|	V|
24+25	1.3381	0.02	Q	|	|	|	V|
24+30	1.3382	0.02	Q	|	|	|	V|
24+35	1.3383	0.01	Q	|	|	|	V|
24+40	1.3384	0.01	Q	|	|	|	V|
24+45	1.3384	0.01	Q	|	|	|	V|
24+50	1.3385	0.01	Q	|	|	|	V|
24+55	1.3385	0.00	Q	|	|	|	V|
25+ 0	1.3385	0.00	Q	|	|	|	V|
25+ 5	1.3385	0.00	Q	|	|	|	V|
25+10	1.3385	0.00	Q	|	|	|	V|
25+15	1.3385	0.00	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	0.291	(0.357)	0.106
2	0.17	4.30	0.406	0.291	(0.366)	0.115
3	0.25	5.00	0.473	0.291	(0.425)	0.181
4	0.33	5.00	0.473	0.291	(0.425)	0.181
5	0.42	5.80	0.548	0.291	(0.493)	0.257
6	0.50	6.50	0.614	0.291	(0.553)	0.323
7	0.58	7.40	0.699	0.291	(0.629)	0.408
8	0.67	8.60	0.813	0.291	(0.731)	0.522
9	0.75	12.30	1.162	0.291	(1.046)	0.871
10	0.83	29.10	2.750	0.291	(2.475)	2.459
11	0.92	6.80	0.643	0.291	(0.578)	0.351
12	1.00	5.00	0.473	0.291	(0.425)	0.181
		(Loss Rate Not Used)				
Sum =		100.0		Sum =		6.0

Flood volume = Effective rainfall 0.50(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.8(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.628(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 120886.9 Cubic Feet
Total soil loss = 70928.5 Cubic Feet

Peak flow rate of this hydrograph = 73.530(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0032	0.47	Q				
0+10	0.0206	2.52	VQ				
0+15	0.0553	5.04	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10110

0+20	0.1059	7.35	V Q
0+25	0.1714	9.51	V Q
0+30	0.2551	12.16	V Q
0+35	0.3640	15.81	V Q
0+40	0.5033	20.23	V Q
0+45	0.6876	26.76	V Q
0+50	0.9915	44.12	V Q
0+55	1.4979	73.53	V Q
1+ 0	1.9625	67.47	V Q
1+ 5	2.2257	38.22	Q V
1+10	2.3837	22.93	Q V
1+15	2.4858	14.83	Q V
1+20	2.5584	10.55	Q V
1+25	2.6127	7.87	Q V
1+30	2.6536	5.94	Q V
1+35	2.6866	4.80	Q V
1+40	2.7122	3.72	Q V
1+45	2.7321	2.89	Q V
1+50	2.7471	2.19	Q V
1+55	2.7585	1.64	Q V
2+ 0	2.7676	1.33	Q V
2+ 5	2.7737	0.88	Q V
2+10	2.7748	0.16	Q V
2+15	2.7752	0.05	Q V

3828EX10310

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.291)	0.173	0.019
2	0.17	1.30	0.193	(0.291)	0.173	0.019
3	0.25	1.10	0.163	(0.291)	0.147	0.016
4	0.33	1.50	0.222	(0.291)	0.200	0.022
5	0.42	1.50	0.222	(0.291)	0.200	0.022
6	0.50	1.80	0.267	(0.291)	0.240	0.027
7	0.58	1.50	0.222	(0.291)	0.200	0.022
8	0.67	1.80	0.267	(0.291)	0.240	0.027
9	0.75	1.80	0.267	(0.291)	0.240	0.027
10	0.83	1.50	0.222	(0.291)	0.200	0.022
11	0.92	1.60	0.237	(0.291)	0.214	0.024
12	1.00	1.80	0.267	(0.291)	0.240	0.027
13	1.08	2.20	0.326	0.291	(0.294)	0.035
14	1.17	2.20	0.326	0.291	(0.294)	0.035
15	1.25	2.20	0.326	0.291	(0.294)	0.035
16	1.33	2.00	0.297	(0.291)	0.267	0.030
17	1.42	2.60	0.386	0.291	(0.347)	0.094
18	1.50	2.70	0.400	0.291	(0.360)	0.109
19	1.58	2.40	0.356	0.291	(0.320)	0.065
20	1.67	2.70	0.400	0.291	(0.360)	0.109
21	1.75	3.30	0.489	0.291	(0.440)	0.198
22	1.83	3.10	0.460	0.291	(0.414)	0.168
23	1.92	2.90	0.430	0.291	(0.387)	0.139
24	2.00	3.00	0.445	0.291	(0.400)	0.154
25	2.08	3.10	0.460	0.291	(0.414)	0.168
26	2.17	4.20	0.623	0.291	(0.561)	0.332
27	2.25	5.00	0.741	0.291	(0.667)	0.450
28	2.33	3.50	0.519	0.291	(0.467)	0.228
29	2.42	6.80	1.008	0.291	(0.908)	0.717
30	2.50	7.30	1.082	0.291	(0.974)	0.791
31	2.58	8.20	1.216	0.291	(1.094)	0.925
32	2.67	5.90	0.875	0.291	(0.787)	0.584
33	2.75	2.00	0.297	(0.291)	0.267	0.030
34	2.83	1.80	0.267	(0.291)	0.240	0.027
35	2.92	1.80	0.267	(0.291)	0.240	0.027
36	3.00	0.60	0.089	(0.291)	0.080	0.009
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.7

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 0.48(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.7(Ac.Ft)
Total soil loss = 0.76(In)
Total soil loss = 4.239(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 116359.0 Cubic Feet
Total soil loss = 184631.4 Cubic Feet

Peak flow rate of this hydrograph = 45.530(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0006	0.09	Q				
0+10	0.0037	0.45	Q				
0+15	0.0093	0.81	Q				
0+20	0.0158	0.94	Q				
0+25	0.0232	1.08	Q				
0+30	0.0318	1.25	VQ				
0+35	0.0414	1.39	VQ				
0+40	0.0515	1.47	VQ				
0+45	0.0621	1.54	VQ				
0+50	0.0732	1.61	|Q				
0+55	0.0841	1.59	|Q				
1+ 0	0.0950	1.58	|Q				
1+ 5	0.1066	1.69	|Q				
1+10	0.1198	1.91	|Q				
1+15	0.1343	2.11	|QV				
1+20	0.1492	2.17	|QV				
1+25	0.1658	2.40	|QV				
1+30	0.1908	3.63	| Q				
1+35	0.2248	4.94	| Q				
1+40	0.2600	5.11	| VQ				
1+45	0.3006	5.90	| Q				
1+50	0.3571	8.21	| VQ				
1+55	0.4232	9.59	| VQ				
2+ 0	0.4883	9.46	| Q				
2+ 5	0.5539	9.53	| QV				
2+10	0.6285	10.83	| QV|				
2+15	0.7313	14.93	| VQ				
2+20	0.8662	19.58	| V Q				
2+25	1.0130	21.32	| V Q				
2+30	1.2092	28.48	| V | Q				
2+35	1.4794	39.23	| V |Q				
2+40	1.7930	45.53	| V | Q				
2+45	2.0811	41.84	| |V Q				
2+50	2.2712	27.60	| Q | V				
2+55	2.3809	15.93	| Q | V				
3+ 0	2.4574	11.11	| Q | V				
3+ 5	2.5135	8.15	| Q | V				
3+10	2.5544	5.95	| Q | V				
3+15	2.5850	4.43	| Q | V				
3+20	2.6087	3.44	| Q | V|				
3+25	2.6274	2.71	| Q | V|				
3+30	2.6415	2.04	|Q | V|				
3+35	2.6520	1.53	|Q | V|				
3+40	2.6602	1.18	Q | V|				
3+45	2.6658	0.83	Q | V|				
3+50	2.6694	0.51	Q | V|				
3+55	2.6708	0.20	Q | V|				
4+ 0	2.6710	0.03	Q | V|				
4+ 5	2.6711	0.02	Q | V|				
4+10	2.6712	0.01	Q | V|				
4+15	2.6712	0.00	Q | V|				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.291)	0.092	0.010
2	0.17	0.60	0.123	(0.291)	0.110	0.012
3	0.25	0.60	0.123	(0.291)	0.110	0.012
4	0.33	0.60	0.123	(0.291)	0.110	0.012
5	0.42	0.60	0.123	(0.291)	0.110	0.012
6	0.50	0.70	0.143	(0.291)	0.129	0.014
7	0.58	0.70	0.143	(0.291)	0.129	0.014
8	0.67	0.70	0.143	(0.291)	0.129	0.014
9	0.75	0.70	0.143	(0.291)	0.129	0.014
10	0.83	0.70	0.143	(0.291)	0.129	0.014
11	0.92	0.70	0.143	(0.291)	0.129	0.014
12	1.00	0.80	0.164	(0.291)	0.147	0.016
13	1.08	0.80	0.164	(0.291)	0.147	0.016
14	1.17	0.80	0.164	(0.291)	0.147	0.016
15	1.25	0.80	0.164	(0.291)	0.147	0.016
16	1.33	0.80	0.164	(0.291)	0.147	0.016
17	1.42	0.80	0.164	(0.291)	0.147	0.016
18	1.50	0.80	0.164	(0.291)	0.147	0.016
19	1.58	0.80	0.164	(0.291)	0.147	0.016
20	1.67	0.80	0.164	(0.291)	0.147	0.016
21	1.75	0.80	0.164	(0.291)	0.147	0.016
22	1.83	0.80	0.164	(0.291)	0.147	0.016
23	1.92	0.80	0.164	(0.291)	0.147	0.016
24	2.00	0.90	0.184	(0.291)	0.166	0.018
25	2.08	0.80	0.164	(0.291)	0.147	0.016
26	2.17	0.90	0.184	(0.291)	0.166	0.018
27	2.25	0.90	0.184	(0.291)	0.166	0.018
28	2.33	0.90	0.184	(0.291)	0.166	0.018
29	2.42	0.90	0.184	(0.291)	0.166	0.018
30	2.50	0.90	0.184	(0.291)	0.166	0.018
31	2.58	0.90	0.184	(0.291)	0.166	0.018
32	2.67	0.90	0.184	(0.291)	0.166	0.018
33	2.75	1.00	0.205	(0.291)	0.184	0.020
34	2.83	1.00	0.205	(0.291)	0.184	0.020
35	2.92	1.00	0.205	(0.291)	0.184	0.020
36	3.00	1.00	0.205	(0.291)	0.184	0.020
37	3.08	1.00	0.205	(0.291)	0.184	0.020
38	3.17	1.10	0.225	(0.291)	0.203	0.023

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.225	(0.291)	0.203	0.023	
40	3.33	1.10	0.225	(0.291)	0.203	0.023	
41	3.42	1.20	0.246	(0.291)	0.221	0.025	
42	3.50	1.30	0.266	(0.291)	0.239	0.027	
43	3.58	1.40	0.286	(0.291)	0.258	0.029	
44	3.67	1.40	0.286	(0.291)	0.258	0.029	
45	3.75	1.50	0.307	(0.291)	0.276	0.031	
46	3.83	1.50	0.307	(0.291)	0.276	0.031	
47	3.92	1.60	0.327	0.291	(0.295)	0.036	
48	4.00	1.60	0.327	0.291	(0.295)	0.036	
49	4.08	1.70	0.348	0.291	(0.313)	0.057	
50	4.17	1.80	0.368	0.291	(0.331)	0.077	
51	4.25	1.90	0.389	0.291	(0.350)	0.098	
52	4.33	2.00	0.409	0.291	(0.368)	0.118	
53	4.42	2.10	0.430	0.291	(0.387)	0.138	
54	4.50	2.10	0.430	0.291	(0.387)	0.138	
55	4.58	2.20	0.450	0.291	(0.405)	0.159	
56	4.67	2.30	0.471	0.291	(0.424)	0.179	
57	4.75	2.40	0.491	0.291	(0.442)	0.200	
58	4.83	2.40	0.491	0.291	(0.442)	0.200	
59	4.92	2.50	0.512	0.291	(0.460)	0.220	
60	5.00	2.60	0.532	0.291	(0.479)	0.241	
61	5.08	3.10	0.634	0.291	(0.571)	0.343	
62	5.17	3.60	0.737	0.291	(0.663)	0.445	
63	5.25	3.90	0.798	0.291	(0.718)	0.507	
64	5.33	4.20	0.859	0.291	(0.773)	0.568	
65	5.42	4.70	0.962	0.291	(0.865)	0.670	
66	5.50	5.60	1.146	0.291	(1.031)	0.855	
67	5.58	1.90	0.389	0.291	(0.350)	0.098	
68	5.67	0.90	0.184	(0.291)	0.166	0.018	
69	5.75	0.60	0.123	(0.291)	0.110	0.012	
70	5.83	0.50	0.102	(0.291)	0.092	0.010	
71	5.92	0.30	0.061	(0.291)	0.055	0.006	
72	6.00	0.20	0.041	(0.291)	0.037	0.004	

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.3

Flood volume = Effective rainfall 0.52(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.9(Ac.Ft)
Total soil loss = 1.18(In)
Total soil loss = 6.608(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 127460.2 Cubic Feet
Total soil loss = 287833.6 Cubic Feet

Peak flow rate of this hydrograph = 40.075(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0003	0.05	Q	|	|	|	|
0+10	0.0020	0.25	Q	|	|	|	|
0+15	0.0054	0.49	Q	|	|	|	|
0+20	0.0096	0.61	Q	|	|	|	|
0+25	0.0142	0.67	Q	|	|	|	|
0+30	0.0192	0.72	Q	|	|	|	|
0+35	0.0246	0.79	Q	|	|	|	|
0+40	0.0305	0.85	Q	|	|	|	|
0+45	0.0365	0.88	Q	|	|	|	|
0+50	0.0428	0.91	Q	|	|	|	|
0+55	0.0491	0.92	Q	|	|	|	|
1+ 0	0.0556	0.94	Q	|	|	|	|
1+ 5	0.0625	0.99	Q	|	|	|	|
1+10	0.0696	1.04	Q	|	|	|	|
1+15	0.0770	1.06	QV	|	|	|	|
1+20	0.0844	1.08	QV	|	|	|	|
1+25	0.0919	1.09	QV	|	|	|	|
1+30	0.0994	1.09	QV	|	|	|	|
1+35	0.1069	1.10	QV	|	|	|	|
1+40	0.1145	1.10	QV	|	|	|	|
1+45	0.1221	1.10	QV	|	|	|	|
1+50	0.1297	1.10	QV	|	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

1+55	0.1373	1.10	QV
2+ 0	0.1450	1.11	QV
2+ 5	0.1528	1.15	Q V
2+10	0.1608	1.16	Q V
2+15	0.1689	1.17	Q V
2+20	0.1772	1.20	Q V
2+25	0.1856	1.22	Q V
2+30	0.1940	1.23	Q V
2+35	0.2025	1.23	Q V
2+40	0.2110	1.23	Q V
2+45	0.2196	1.25	Q V
2+50	0.2284	1.29	Q V
2+55	0.2376	1.33	Q V
3+ 0	0.2469	1.35	Q V
3+ 5	0.2562	1.36	Q V
3+10	0.2657	1.37	Q V
3+15	0.2754	1.42	Q V
3+20	0.2855	1.46	Q V
3+25	0.2957	1.49	Q V
3+30	0.3064	1.55	Q V
3+35	0.3177	1.64	Q V
3+40	0.3298	1.75	Q V
3+45	0.3423	1.82	Q V
3+50	0.3554	1.90	Q V
3+55	0.3691	1.99	Q V
4+ 0	0.3837	2.12	Q V
4+ 5	0.3998	2.34	Q V
4+10	0.4197	2.88	Q V
4+15	0.4458	3.79	Q V
4+20	0.4792	4.86	Q V
4+25	0.5207	6.02	Q V
4+30	0.5698	7.14	Q V
4+35	0.6249	8.00	Q V
4+40	0.6862	8.89	Q V
4+45	0.7553	10.04	Q V
4+50	0.8323	11.18	Q V
4+55	0.9155	12.07	Q V
5+ 0	1.0050	12.99	Q V
5+ 5	1.1050	14.52	Q V
5+10	1.2268	17.69	Q V
5+15	1.3804	22.30	QV
5+20	1.5653	26.84	Q
5+25	1.7798	31.15	Q
5+30	2.0314	36.53	V Q
5+35	2.3074	40.07	VQ
5+40	2.5187	30.68	Q V
5+45	2.6371	17.19	Q V
5+50	2.7125	10.96	Q V
5+55	2.7673	7.95	Q V
6+ 0	2.8084	5.96	Q V
6+ 5	2.8396	4.53	Q V
6+10	2.8632	3.43	Q V
6+15	2.8815	2.67	Q V
6+20	2.8956	2.04	Q V
6+25	2.9062	1.54	Q V
6+30	2.9139	1.13	Q V
6+35	2.9195	0.80	Q V
6+40	2.9234	0.56	Q V
6+45	2.9255	0.30	Q V
6+50	2.9258	0.05	Q V
6+55	2.9259	0.02	Q V
7+ 0	2.9260	0.01	Q V
7+ 5	2.9261	0.01	Q V
7+10	2.9261	0.00	Q V
7+15	2.9261	0.00	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX102410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX102410

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.516)	0.021	0.002
2	0.17	0.07	0.023	(0.514)	0.021	0.002
3	0.25	0.07	0.023	(0.512)	0.021	0.002
4	0.33	0.10	0.035	(0.510)	0.031	0.003
5	0.42	0.10	0.035	(0.508)	0.031	0.003
6	0.50	0.10	0.035	(0.506)	0.031	0.003
7	0.58	0.10	0.035	(0.504)	0.031	0.003
8	0.67	0.10	0.035	(0.502)	0.031	0.003
9	0.75	0.10	0.035	(0.500)	0.031	0.003
10	0.83	0.13	0.046	(0.498)	0.041	0.005
11	0.92	0.13	0.046	(0.496)	0.041	0.005
12	1.00	0.13	0.046	(0.494)	0.041	0.005
13	1.08	0.10	0.035	(0.493)	0.031	0.003
14	1.17	0.10	0.035	(0.491)	0.031	0.003
15	1.25	0.10	0.035	(0.489)	0.031	0.003
16	1.33	0.10	0.035	(0.487)	0.031	0.003
17	1.42	0.10	0.035	(0.485)	0.031	0.003
18	1.50	0.10	0.035	(0.483)	0.031	0.003
19	1.58	0.10	0.035	(0.481)	0.031	0.003
20	1.67	0.10	0.035	(0.479)	0.031	0.003
21	1.75	0.10	0.035	(0.477)	0.031	0.003
22	1.83	0.13	0.046	(0.475)	0.041	0.005
23	1.92	0.13	0.046	(0.473)	0.041	0.005
24	2.00	0.13	0.046	(0.471)	0.041	0.005
25	2.08	0.13	0.046	(0.469)	0.041	0.005
26	2.17	0.13	0.046	(0.467)	0.041	0.005
27	2.25	0.13	0.046	(0.466)	0.041	0.005
28	2.33	0.13	0.046	(0.464)	0.041	0.005
29	2.42	0.13	0.046	(0.462)	0.041	0.005
30	2.50	0.13	0.046	(0.460)	0.041	0.005
31	2.58	0.17	0.058	(0.458)	0.052	0.006
32	2.67	0.17	0.058	(0.456)	0.052	0.006
33	2.75	0.17	0.058	(0.454)	0.052	0.006
34	2.83	0.17	0.058	(0.452)	0.052	0.006
35	2.92	0.17	0.058	(0.451)	0.052	0.006
36	3.00	0.17	0.058	(0.449)	0.052	0.006
37	3.08	0.17	0.058	(0.447)	0.052	0.006
38	3.17	0.17	0.058	(0.445)	0.052	0.006

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.058	(0.443)	0.052	0.006
40	3.33	0.17	0.058	(0.441)	0.052	0.006
41	3.42	0.17	0.058	(0.439)	0.052	0.006
42	3.50	0.17	0.058	(0.438)	0.052	0.006
43	3.58	0.17	0.058	(0.436)	0.052	0.006
44	3.67	0.17	0.058	(0.434)	0.052	0.006
45	3.75	0.17	0.058	(0.432)	0.052	0.006
46	3.83	0.20	0.069	(0.430)	0.062	0.007
47	3.92	0.20	0.069	(0.428)	0.062	0.007
48	4.00	0.20	0.069	(0.427)	0.062	0.007
49	4.08	0.20	0.069	(0.425)	0.062	0.007
50	4.17	0.20	0.069	(0.423)	0.062	0.007
51	4.25	0.20	0.069	(0.421)	0.062	0.007
52	4.33	0.23	0.081	(0.419)	0.073	0.008
53	4.42	0.23	0.081	(0.418)	0.073	0.008
54	4.50	0.23	0.081	(0.416)	0.073	0.008
55	4.58	0.23	0.081	(0.414)	0.073	0.008
56	4.67	0.23	0.081	(0.412)	0.073	0.008
57	4.75	0.23	0.081	(0.411)	0.073	0.008
58	4.83	0.27	0.092	(0.409)	0.083	0.009
59	4.92	0.27	0.092	(0.407)	0.083	0.009
60	5.00	0.27	0.092	(0.405)	0.083	0.009
61	5.08	0.20	0.069	(0.403)	0.062	0.007
62	5.17	0.20	0.069	(0.402)	0.062	0.007
63	5.25	0.20	0.069	(0.400)	0.062	0.007
64	5.33	0.23	0.081	(0.398)	0.073	0.008
65	5.42	0.23	0.081	(0.396)	0.073	0.008
66	5.50	0.23	0.081	(0.395)	0.073	0.008
67	5.58	0.27	0.092	(0.393)	0.083	0.009
68	5.67	0.27	0.092	(0.391)	0.083	0.009
69	5.75	0.27	0.092	(0.390)	0.083	0.009
70	5.83	0.27	0.092	(0.388)	0.083	0.009
71	5.92	0.27	0.092	(0.386)	0.083	0.009
72	6.00	0.27	0.092	(0.384)	0.083	0.009
73	6.08	0.30	0.104	(0.383)	0.093	0.010
74	6.17	0.30	0.104	(0.381)	0.093	0.010
75	6.25	0.30	0.104	(0.379)	0.093	0.010
76	6.33	0.30	0.104	(0.378)	0.093	0.010
77	6.42	0.30	0.104	(0.376)	0.093	0.010
78	6.50	0.30	0.104	(0.374)	0.093	0.010
79	6.58	0.33	0.115	(0.373)	0.104	0.012
80	6.67	0.33	0.115	(0.371)	0.104	0.012
81	6.75	0.33	0.115	(0.369)	0.104	0.012
82	6.83	0.33	0.115	(0.368)	0.104	0.012
83	6.92	0.33	0.115	(0.366)	0.104	0.012
84	7.00	0.33	0.115	(0.364)	0.104	0.012
85	7.08	0.33	0.115	(0.363)	0.104	0.012
86	7.17	0.33	0.115	(0.361)	0.104	0.012
87	7.25	0.33	0.115	(0.359)	0.104	0.012
88	7.33	0.37	0.127	(0.358)	0.114	0.013
89	7.42	0.37	0.127	(0.356)	0.114	0.013
90	7.50	0.37	0.127	(0.354)	0.114	0.013
91	7.58	0.40	0.138	(0.353)	0.124	0.014
92	7.67	0.40	0.138	(0.351)	0.124	0.014
93	7.75	0.40	0.138	(0.349)	0.124	0.014
94	7.83	0.43	0.150	(0.348)	0.135	0.015
95	7.92	0.43	0.150	(0.346)	0.135	0.015
96	8.00	0.43	0.150	(0.345)	0.135	0.015
97	8.08	0.50	0.173	(0.343)	0.156	0.017
98	8.17	0.50	0.173	(0.341)	0.156	0.017
99	8.25	0.50	0.173	(0.340)	0.156	0.017
100	8.33	0.50	0.173	(0.338)	0.156	0.017
101	8.42	0.50	0.173	(0.337)	0.156	0.017
102	8.50	0.50	0.173	(0.335)	0.156	0.017
103	8.58	0.53	0.184	(0.334)	0.166	0.018
104	8.67	0.53	0.184	(0.332)	0.166	0.018
105	8.75	0.53	0.184	(0.330)	0.166	0.018
106	8.83	0.57	0.196	(0.329)	0.176	0.020
107	8.92	0.57	0.196	(0.327)	0.176	0.020
108	9.00	0.57	0.196	(0.326)	0.176	0.020
109	9.08	0.63	0.219	(0.324)	0.197	0.022
110	9.17	0.63	0.219	(0.323)	0.197	0.022
111	9.25	0.63	0.219	(0.321)	0.197	0.022
112	9.33	0.67	0.230	(0.320)	0.207	0.023
113	9.42	0.67	0.230	(0.318)	0.207	0.023
114	9.50	0.67	0.230	(0.317)	0.207	0.023
115	9.58	0.70	0.242	(0.315)	0.218	0.024

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

116	9.67	0.70	0.242	(0.314)	0.218	0.024
117	9.75	0.70	0.242	(0.312)	0.218	0.024
118	9.83	0.73	0.254	(0.310)	0.228	0.025
119	9.92	0.73	0.254	(0.309)	0.228	0.025
120	10.00	0.73	0.254	(0.308)	0.228	0.025
121	10.08	0.50	0.173	(0.306)	0.156	0.017
122	10.17	0.50	0.173	(0.305)	0.156	0.017
123	10.25	0.50	0.173	(0.303)	0.156	0.017
124	10.33	0.50	0.173	(0.302)	0.156	0.017
125	10.42	0.50	0.173	(0.300)	0.156	0.017
126	10.50	0.50	0.173	(0.299)	0.156	0.017
127	10.58	0.67	0.230	(0.297)	0.207	0.023
128	10.67	0.67	0.230	(0.296)	0.207	0.023
129	10.75	0.67	0.230	(0.294)	0.207	0.023
130	10.83	0.67	0.230	(0.293)	0.207	0.023
131	10.92	0.67	0.230	(0.291)	0.207	0.023
132	11.00	0.67	0.230	(0.290)	0.207	0.023
133	11.08	0.63	0.219	(0.289)	0.197	0.022
134	11.17	0.63	0.219	(0.287)	0.197	0.022
135	11.25	0.63	0.219	(0.286)	0.197	0.022
136	11.33	0.63	0.219	(0.284)	0.197	0.022
137	11.42	0.63	0.219	(0.283)	0.197	0.022
138	11.50	0.63	0.219	(0.281)	0.197	0.022
139	11.58	0.57	0.196	(0.280)	0.176	0.020
140	11.67	0.57	0.196	(0.279)	0.176	0.020
141	11.75	0.57	0.196	(0.277)	0.176	0.020
142	11.83	0.60	0.207	(0.276)	0.187	0.021
143	11.92	0.60	0.207	(0.275)	0.187	0.021
144	12.00	0.60	0.207	(0.273)	0.187	0.021
145	12.08	0.83	0.288	(0.272)	0.259	0.029
146	12.17	0.83	0.288	(0.270)	0.259	0.029
147	12.25	0.83	0.288	(0.269)	0.259	0.029
148	12.33	0.87	0.300	0.268	(0.270)	0.032
149	12.42	0.87	0.300	0.266	(0.270)	0.033
150	12.50	0.87	0.300	0.265	(0.270)	0.035
151	12.58	0.93	0.323	0.264	(0.290)	0.059
152	12.67	0.93	0.323	0.262	(0.290)	0.060
153	12.75	0.93	0.323	0.261	(0.290)	0.062
154	12.83	0.97	0.334	0.260	(0.301)	0.074
155	12.92	0.97	0.334	0.258	(0.301)	0.076
156	13.00	0.97	0.334	0.257	(0.301)	0.077
157	13.08	1.13	0.392	0.256	(0.353)	0.136
158	13.17	1.13	0.392	0.255	(0.353)	0.137
159	13.25	1.13	0.392	0.253	(0.353)	0.139
160	13.33	1.13	0.392	0.252	(0.353)	0.140
161	13.42	1.13	0.392	0.251	(0.353)	0.141
162	13.50	1.13	0.392	0.249	(0.353)	0.142
163	13.58	0.77	0.265	(0.248)	0.239	0.027
164	13.67	0.77	0.265	(0.247)	0.239	0.027
165	13.75	0.77	0.265	(0.246)	0.239	0.027
166	13.83	0.77	0.265	(0.244)	0.239	0.027
167	13.92	0.77	0.265	(0.243)	0.239	0.027
168	14.00	0.77	0.265	(0.242)	0.239	0.027
169	14.08	0.90	0.311	0.241	(0.280)	0.070
170	14.17	0.90	0.311	0.239	(0.280)	0.072
171	14.25	0.90	0.311	0.238	(0.280)	0.073
172	14.33	0.87	0.300	0.237	(0.270)	0.063
173	14.42	0.87	0.300	0.236	(0.270)	0.064
174	14.50	0.87	0.300	0.235	(0.270)	0.065
175	14.58	0.87	0.300	0.233	(0.270)	0.066
176	14.67	0.87	0.300	0.232	(0.270)	0.067
177	14.75	0.87	0.300	0.231	(0.270)	0.069
178	14.83	0.83	0.288	0.230	(0.259)	0.058
179	14.92	0.83	0.288	0.229	(0.259)	0.059
180	15.00	0.83	0.288	0.227	(0.259)	0.061
181	15.08	0.80	0.277	0.226	(0.249)	0.050
182	15.17	0.80	0.277	0.225	(0.249)	0.051
183	15.25	0.80	0.277	0.224	(0.249)	0.053
184	15.33	0.77	0.265	0.223	(0.239)	0.042
185	15.42	0.77	0.265	0.222	(0.239)	0.043
186	15.50	0.77	0.265	0.221	(0.239)	0.045
187	15.58	0.63	0.219	(0.219)	0.197	0.022
188	15.67	0.63	0.219	(0.218)	0.197	0.022
189	15.75	0.63	0.219	(0.217)	0.197	0.022
190	15.83	0.63	0.219	(0.216)	0.197	0.022
191	15.92	0.63	0.219	(0.215)	0.197	0.022
192	16.00	0.63	0.219	(0.214)	0.197	0.022

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.046	(0.213)	0.041	0.005
194	16.17	0.13	0.046	(0.212)	0.041	0.005
195	16.25	0.13	0.046	(0.211)	0.041	0.005
196	16.33	0.13	0.046	(0.210)	0.041	0.005
197	16.42	0.13	0.046	(0.208)	0.041	0.005
198	16.50	0.13	0.046	(0.207)	0.041	0.005
199	16.58	0.10	0.035	(0.206)	0.031	0.003
200	16.67	0.10	0.035	(0.205)	0.031	0.003
201	16.75	0.10	0.035	(0.204)	0.031	0.003
202	16.83	0.10	0.035	(0.203)	0.031	0.003
203	16.92	0.10	0.035	(0.202)	0.031	0.003
204	17.00	0.10	0.035	(0.201)	0.031	0.003
205	17.08	0.17	0.058	(0.200)	0.052	0.006
206	17.17	0.17	0.058	(0.199)	0.052	0.006
207	17.25	0.17	0.058	(0.198)	0.052	0.006
208	17.33	0.17	0.058	(0.197)	0.052	0.006
209	17.42	0.17	0.058	(0.196)	0.052	0.006
210	17.50	0.17	0.058	(0.195)	0.052	0.006
211	17.58	0.17	0.058	(0.194)	0.052	0.006
212	17.67	0.17	0.058	(0.193)	0.052	0.006
213	17.75	0.17	0.058	(0.192)	0.052	0.006
214	17.83	0.13	0.046	(0.191)	0.041	0.005
215	17.92	0.13	0.046	(0.190)	0.041	0.005
216	18.00	0.13	0.046	(0.189)	0.041	0.005
217	18.08	0.13	0.046	(0.188)	0.041	0.005
218	18.17	0.13	0.046	(0.188)	0.041	0.005
219	18.25	0.13	0.046	(0.187)	0.041	0.005
220	18.33	0.13	0.046	(0.186)	0.041	0.005
221	18.42	0.13	0.046	(0.185)	0.041	0.005
222	18.50	0.13	0.046	(0.184)	0.041	0.005
223	18.58	0.10	0.035	(0.183)	0.031	0.003
224	18.67	0.10	0.035	(0.182)	0.031	0.003
225	18.75	0.10	0.035	(0.181)	0.031	0.003
226	18.83	0.07	0.023	(0.180)	0.021	0.002
227	18.92	0.07	0.023	(0.180)	0.021	0.002
228	19.00	0.07	0.023	(0.179)	0.021	0.002
229	19.08	0.10	0.035	(0.178)	0.031	0.003
230	19.17	0.10	0.035	(0.177)	0.031	0.003
231	19.25	0.10	0.035	(0.176)	0.031	0.003
232	19.33	0.13	0.046	(0.175)	0.041	0.005
233	19.42	0.13	0.046	(0.175)	0.041	0.005
234	19.50	0.13	0.046	(0.174)	0.041	0.005
235	19.58	0.10	0.035	(0.173)	0.031	0.003
236	19.67	0.10	0.035	(0.172)	0.031	0.003
237	19.75	0.10	0.035	(0.171)	0.031	0.003
238	19.83	0.07	0.023	(0.171)	0.021	0.002
239	19.92	0.07	0.023	(0.170)	0.021	0.002
240	20.00	0.07	0.023	(0.169)	0.021	0.002
241	20.08	0.10	0.035	(0.168)	0.031	0.003
242	20.17	0.10	0.035	(0.168)	0.031	0.003
243	20.25	0.10	0.035	(0.167)	0.031	0.003
244	20.33	0.10	0.035	(0.166)	0.031	0.003
245	20.42	0.10	0.035	(0.165)	0.031	0.003
246	20.50	0.10	0.035	(0.165)	0.031	0.003
247	20.58	0.10	0.035	(0.164)	0.031	0.003
248	20.67	0.10	0.035	(0.163)	0.031	0.003
249	20.75	0.10	0.035	(0.163)	0.031	0.003
250	20.83	0.07	0.023	(0.162)	0.021	0.002
251	20.92	0.07	0.023	(0.161)	0.021	0.002
252	21.00	0.07	0.023	(0.161)	0.021	0.002
253	21.08	0.10	0.035	(0.160)	0.031	0.003
254	21.17	0.10	0.035	(0.159)	0.031	0.003
255	21.25	0.10	0.035	(0.159)	0.031	0.003
256	21.33	0.07	0.023	(0.158)	0.021	0.002
257	21.42	0.07	0.023	(0.158)	0.021	0.002
258	21.50	0.07	0.023	(0.157)	0.021	0.002
259	21.58	0.10	0.035	(0.156)	0.031	0.003
260	21.67	0.10	0.035	(0.156)	0.031	0.003
261	21.75	0.10	0.035	(0.155)	0.031	0.003
262	21.83	0.07	0.023	(0.155)	0.021	0.002
263	21.92	0.07	0.023	(0.154)	0.021	0.002
264	22.00	0.07	0.023	(0.154)	0.021	0.002
265	22.08	0.10	0.035	(0.153)	0.031	0.003
266	22.17	0.10	0.035	(0.153)	0.031	0.003
267	22.25	0.10	0.035	(0.152)	0.031	0.003
268	22.33	0.07	0.023	(0.152)	0.021	0.002
269	22.42	0.07	0.023	(0.151)	0.021	0.002

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.023	(0.151)	0.021	0.002
271	22.58	0.07	0.023	(0.150)	0.021	0.002
272	22.67	0.07	0.023	(0.150)	0.021	0.002
273	22.75	0.07	0.023	(0.150)	0.021	0.002
274	22.83	0.07	0.023	(0.149)	0.021	0.002
275	22.92	0.07	0.023	(0.149)	0.021	0.002
276	23.00	0.07	0.023	(0.148)	0.021	0.002
277	23.08	0.07	0.023	(0.148)	0.021	0.002
278	23.17	0.07	0.023	(0.148)	0.021	0.002
279	23.25	0.07	0.023	(0.147)	0.021	0.002
280	23.33	0.07	0.023	(0.147)	0.021	0.002
281	23.42	0.07	0.023	(0.147)	0.021	0.002
282	23.50	0.07	0.023	(0.147)	0.021	0.002
283	23.58	0.07	0.023	(0.146)	0.021	0.002
284	23.67	0.07	0.023	(0.146)	0.021	0.002
285	23.75	0.07	0.023	(0.146)	0.021	0.002
286	23.83	0.07	0.023	(0.146)	0.021	0.002
287	23.92	0.07	0.023	(0.146)	0.021	0.002
288	24.00	0.07	0.023	(0.146)	0.021	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 4.8

Flood volume = Effective rainfall 0.40(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.2(Ac.Ft)
Total soil loss = 2.48(In)
Total soil loss = 13.860(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 97997.1 Cubic Feet
Total soil loss = 603735.4 Cubic Feet

Peak flow rate of this hydrograph = 8.779(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

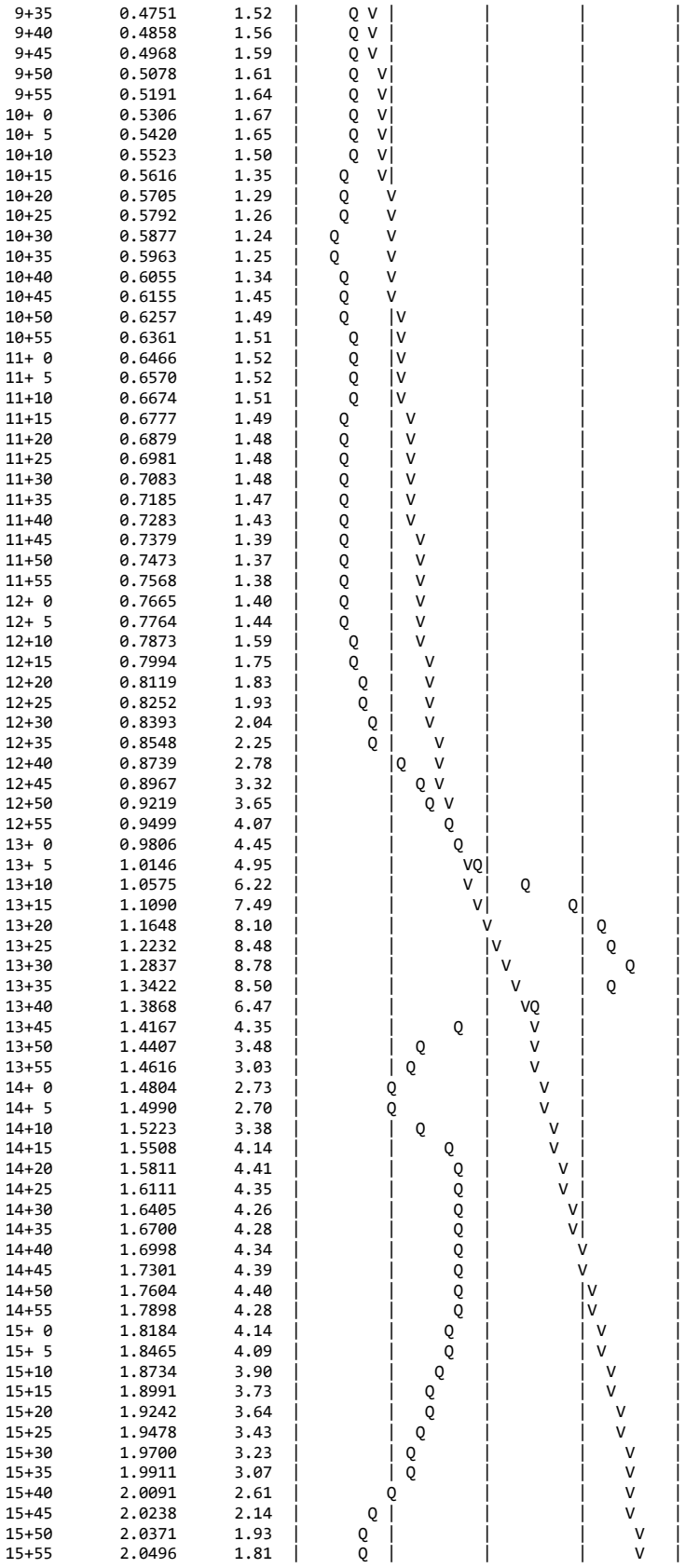
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.05	Q				
0+15	0.0011	0.10	Q				
0+20	0.0020	0.12	Q				
0+25	0.0030	0.15	Q				
0+30	0.0043	0.18	Q				
0+35	0.0057	0.20	Q				
0+40	0.0071	0.21	Q				
0+45	0.0086	0.21	Q				
0+50	0.0101	0.22	Q				
0+55	0.0118	0.25	VQ				
1+ 0	0.0137	0.28	VQ				
1+ 5	0.0157	0.28	VQ				
1+10	0.0175	0.27	VQ				
1+15	0.0192	0.25	Q				
1+20	0.0209	0.24	Q				
1+25	0.0226	0.24	Q				
1+30	0.0242	0.24	Q				
1+35	0.0259	0.24	Q				
1+40	0.0275	0.24	Q				
1+45	0.0291	0.24	Q				
1+50	0.0308	0.24	Q				
1+55	0.0326	0.26	VQ				
2+ 0	0.0346	0.28	VQ				
2+ 5	0.0366	0.29	VQ				
2+10	0.0387	0.30	VQ				
2+15	0.0407	0.30	VQ				
2+20	0.0428	0.30	VQ				
2+25	0.0449	0.31	VQ				
2+30	0.0470	0.31	VQ				
2+35	0.0492	0.31	VQ				
2+40	0.0515	0.34	VQ				
2+45	0.0540	0.36	VQ				
2+50	0.0565	0.37	|Q				
2+55	0.0591	0.38	|Q				
3+ 0	0.0617	0.38	|Q				
3+ 5	0.0644	0.38	|Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.0670	0.38	Q				
3+15	0.0697	0.39	Q				
3+20	0.0723	0.39	Q				
3+25	0.0750	0.39	Q				
3+30	0.0777	0.39	Q				
3+35	0.0803	0.39	Q				
3+40	0.0830	0.39	Q				
3+45	0.0857	0.39	Q				
3+50	0.0884	0.39	Q				
3+55	0.0913	0.42	Q				
4+ 0	0.0943	0.44	Q				
4+ 5	0.0974	0.45	Q				
4+10	0.1005	0.45	Q				
4+15	0.1037	0.46	Q				
4+20	0.1069	0.47	Q				
4+25	0.1103	0.49	Q				
4+30	0.1138	0.51	Q				
4+35	0.1174	0.52	Q				
4+40	0.1210	0.53	Q				
4+45	0.1247	0.53	Q				
4+50	0.1284	0.54	Q				
4+55	0.1323	0.57	Q				
5+ 0	0.1364	0.59	Q				
5+ 5	0.1405	0.59	Q				
5+10	0.1443	0.55	Q				
5+15	0.1478	0.51	Q				
5+20	0.1513	0.50	Q				
5+25	0.1548	0.52	Q				
5+30	0.1585	0.53	Q				
5+35	0.1623	0.54	Q				
5+40	0.1662	0.57	Q				
5+45	0.1702	0.59	QV				
5+50	0.1744	0.60	QV				
5+55	0.1786	0.61	QV				
6+ 0	0.1828	0.61	QV				
6+ 5	0.1871	0.62	QV				
6+10	0.1915	0.64	QV				
6+15	0.1961	0.67	QV				
6+20	0.2008	0.68	QV				
6+25	0.2055	0.68	QV				
6+30	0.2102	0.69	QV				
6+35	0.2150	0.70	QV				
6+40	0.2200	0.72	QV				
6+45	0.2251	0.75	Q V				
6+50	0.2304	0.76	QV				
6+55	0.2356	0.76	QV				
7+ 0	0.2409	0.77	QV				
7+ 5	0.2462	0.77	QV				
7+10	0.2515	0.77	QV				
7+15	0.2569	0.77	QV				
7+20	0.2622	0.78	QV				
7+25	0.2678	0.80	QV				
7+30	0.2735	0.83	QV				
7+35	0.2793	0.84	QV				
7+40	0.2853	0.87	Q V				
7+45	0.2914	0.90	Q V				
7+50	0.2977	0.91	Q V				
7+55	0.3042	0.94	Q V				
8+ 0	0.3109	0.97	Q V				
8+ 5	0.3177	0.99	Q V				
8+10	0.3249	1.05	QV				
8+15	0.3325	1.10	QV				
8+20	0.3402	1.12	Q V				
8+25	0.3480	1.13	Q V				
8+30	0.3559	1.14	Q V				
8+35	0.3638	1.15	Q V				
8+40	0.3719	1.18	Q V				
8+45	0.3803	1.21	Q V				
8+50	0.3887	1.23	Q V				
8+55	0.3973	1.25	Q V				
9+ 0	0.4062	1.28	Q V				
9+ 5	0.4152	1.31	Q V				
9+10	0.4245	1.36	Q V				
9+15	0.4342	1.41	Q V				
9+20	0.4441	1.44	Q V				
9+25	0.4543	1.47	Q V				
9+30	0.4646	1.50	Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



9+35	0.4751	1.52	Q V
9+40	0.4858	1.56	Q V
9+45	0.4968	1.59	Q V
9+50	0.5078	1.61	Q V
9+55	0.5191	1.64	Q V
10+ 0	0.5306	1.67	Q V
10+ 5	0.5420	1.65	Q V
10+10	0.5523	1.50	Q V
10+15	0.5616	1.35	Q V
10+20	0.5705	1.29	Q V
10+25	0.5792	1.26	Q V
10+30	0.5877	1.24	Q V
10+35	0.5963	1.25	Q V
10+40	0.6055	1.34	Q V
10+45	0.6155	1.45	Q V
10+50	0.6257	1.49	Q V
10+55	0.6361	1.51	Q V
11+ 0	0.6466	1.52	Q V
11+ 5	0.6570	1.52	Q V
11+10	0.6674	1.51	Q V
11+15	0.6777	1.49	Q V
11+20	0.6879	1.48	Q V
11+25	0.6981	1.48	Q V
11+30	0.7083	1.48	Q V
11+35	0.7185	1.47	Q V
11+40	0.7283	1.43	Q V
11+45	0.7379	1.39	Q V
11+50	0.7473	1.37	Q V
11+55	0.7568	1.38	Q V
12+ 0	0.7665	1.40	Q V
12+ 5	0.7764	1.44	Q V
12+10	0.7873	1.59	Q V
12+15	0.7994	1.75	Q V
12+20	0.8119	1.83	Q V
12+25	0.8252	1.93	Q V
12+30	0.8393	2.04	Q V
12+35	0.8548	2.25	Q V
12+40	0.8739	2.78	Q V
12+45	0.8967	3.32	Q V
12+50	0.9219	3.65	Q V
12+55	0.9499	4.07	Q
13+ 0	0.9806	4.45	Q
13+ 5	1.0146	4.95	VQ
13+10	1.0575	6.22	V Q
13+15	1.1090	7.49	V Q
13+20	1.1648	8.10	V Q
13+25	1.2232	8.48	V Q
13+30	1.2837	8.78	V Q
13+35	1.3422	8.50	V Q
13+40	1.3868	6.47	VQ
13+45	1.4167	4.35	Q V
13+50	1.4407	3.48	Q V
13+55	1.4616	3.03	Q V
14+ 0	1.4804	2.73	Q V
14+ 5	1.4990	2.70	Q V
14+10	1.5223	3.38	Q V
14+15	1.5508	4.14	Q V
14+20	1.5811	4.41	Q V
14+25	1.6111	4.35	Q V
14+30	1.6405	4.26	Q V
14+35	1.6700	4.28	Q V
14+40	1.6998	4.34	Q V
14+45	1.7301	4.39	Q V
14+50	1.7604	4.40	Q V
14+55	1.7898	4.28	Q V
15+ 0	1.8184	4.14	Q V
15+ 5	1.8465	4.09	Q V
15+10	1.8734	3.90	Q V
15+15	1.8991	3.73	Q V
15+20	1.9242	3.64	Q V
15+25	1.9478	3.43	Q V
15+30	1.9700	3.23	Q V
15+35	1.9911	3.07	Q V
15+40	2.0091	2.61	Q V
15+45	2.0238	2.14	Q V
15+50	2.0371	1.93	Q V
15+55	2.0496	1.81	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+ 0	2.0614	1.73		Q			V
16+ 5	2.0724	1.58		Q			V
16+10	2.0807	1.21		Q			V
16+15	2.0865	0.84		Q			V
16+20	2.0911	0.67	Q				V
16+25	2.0951	0.57	Q				V
16+30	2.0986	0.50	Q				V
16+35	2.1016	0.45	Q				V
16+40	2.1043	0.39	Q				V
16+45	2.1066	0.34	Q				V
16+50	2.1087	0.30	Q				V
16+55	2.1107	0.28	Q				V
17+ 0	2.1125	0.27	Q				V
17+ 5	2.1144	0.27	Q				V
17+10	2.1165	0.30	Q				V
17+15	2.1189	0.34	Q				V
17+20	2.1213	0.35	Q				V
17+25	2.1238	0.36	Q				V
17+30	2.1264	0.37	Q				V
17+35	2.1289	0.38	Q				V
17+40	2.1316	0.38	Q				V
17+45	2.1342	0.38	Q				V
17+50	2.1368	0.38	Q				V
17+55	2.1392	0.36	Q				V
18+ 0	2.1416	0.34	Q				V
18+ 5	2.1438	0.33	Q				V
18+10	2.1461	0.32	Q				V
18+15	2.1483	0.32	Q				V
18+20	2.1505	0.32	Q				V
18+25	2.1527	0.32	Q				V
18+30	2.1549	0.32	Q				V
18+35	2.1570	0.31	Q				V
18+40	2.1590	0.29	Q				V
18+45	2.1608	0.26	Q				V
18+50	2.1625	0.25	Q				V
18+55	2.1640	0.22	Q				V
19+ 0	2.1654	0.20	Q				V
19+ 5	2.1667	0.19	Q				V
19+10	2.1681	0.20	Q				V
19+15	2.1696	0.22	Q				V
19+20	2.1712	0.23	Q				V
19+25	2.1729	0.26	Q				V
19+30	2.1749	0.28	Q				V
19+35	2.1768	0.28	Q				V
19+40	2.1787	0.27	Q				V
19+45	2.1804	0.25	Q				V
19+50	2.1820	0.24	Q				V
19+55	2.1835	0.21	Q				V
20+ 0	2.1848	0.19	Q				V
20+ 5	2.1861	0.18	Q				V
20+10	2.1874	0.20	Q				V
20+15	2.1889	0.22	Q				V
20+20	2.1905	0.22	Q				V
20+25	2.1920	0.23	Q				V
20+30	2.1936	0.23	Q				V
20+35	2.1952	0.23	Q				V
20+40	2.1968	0.23	Q				V
20+45	2.1984	0.23	Q				V
20+50	2.2000	0.23	Q				V
20+55	2.2014	0.21	Q				V
21+ 0	2.2026	0.18	Q				V
21+ 5	2.2039	0.18	Q				V
21+10	2.2052	0.20	Q				V
21+15	2.2067	0.22	Q				V
21+20	2.2082	0.22	Q				V
21+25	2.2096	0.20	Q				V
21+30	2.2108	0.18	Q				V
21+35	2.2120	0.18	Q				V
21+40	2.2133	0.19	Q				V
21+45	2.2148	0.21	Q				V
21+50	2.2163	0.22	Q				V
21+55	2.2177	0.20	Q				V
22+ 0	2.2189	0.18	Q				V
22+ 5	2.2201	0.17	Q				V
22+10	2.2214	0.19	Q				V
22+15	2.2229	0.21	Q				V
22+20	2.2243	0.22	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX102410

22+25	2.2257	0.20	Q	|	|	|	V|
22+30	2.2269	0.18	Q	|	|	|	V|
22+35	2.2281	0.17	Q	|	|	|	V|
22+40	2.2292	0.17	Q	|	|	|	V|
22+45	2.2304	0.16	Q	|	|	|	V|
22+50	2.2315	0.16	Q	|	|	|	V|
22+55	2.2326	0.16	Q	|	|	|	V|
23+ 0	2.2337	0.16	Q	|	|	|	V|
23+ 5	2.2348	0.16	Q	|	|	|	V|
23+10	2.2358	0.16	Q	|	|	|	V|
23+15	2.2369	0.16	Q	|	|	|	V|
23+20	2.2380	0.16	Q	|	|	|	V|
23+25	2.2391	0.16	Q	|	|	|	V|
23+30	2.2402	0.16	Q	|	|	|	V|
23+35	2.2412	0.16	Q	|	|	|	V|
23+40	2.2423	0.16	Q	|	|	|	V|
23+45	2.2434	0.16	Q	|	|	|	V|
23+50	2.2445	0.16	Q	|	|	|	V|
23+55	2.2455	0.16	Q	|	|	|	V|
24+ 0	2.2466	0.16	Q	|	|	|	V|
24+ 5	2.2476	0.15	Q	|	|	|	V|
24+10	2.2483	0.10	Q	|	|	|	V|
24+15	2.2487	0.06	Q	|	|	|	V|
24+20	2.2490	0.04	Q	|	|	|	V|
24+25	2.2492	0.03	Q	|	|	|	V|
24+30	2.2493	0.02	Q	|	|	|	V|
24+35	2.2494	0.02	Q	|	|	|	V|
24+40	2.2495	0.01	Q	|	|	|	V|
24+45	2.2496	0.01	Q	|	|	|	V|
24+50	2.2496	0.01	Q	|	|	|	V|
24+55	2.2496	0.00	Q	|	|	|	V|
25+ 0	2.2497	0.00	Q	|	|	|	V|
25+ 5	2.2497	0.00	Q	|	|	|	V|
25+10	2.2497	0.00	Q	|	|	|	V|
25+15	2.2497	0.00	Q	|	|	|	V|

3828EX1001100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1001100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.146	(0.544)	0.458
2	0.17	4.30	0.619	0.146	(0.557)	0.473
3	0.25	5.00	0.720	0.146	(0.648)	0.574
4	0.33	5.00	0.720	0.146	(0.648)	0.574
5	0.42	5.80	0.835	0.146	(0.751)	0.689
6	0.50	6.50	0.935	0.146	(0.842)	0.789
7	0.58	7.40	1.065	0.146	(0.958)	0.919
8	0.67	8.60	1.238	0.146	(1.114)	1.092
9	0.75	12.30	1.770	0.146	(1.593)	1.624
10	0.83	29.10	4.188	0.146	(3.769)	4.042
11	0.92	6.80	0.979	0.146	(0.881)	0.833
12	1.00	5.00	0.720	0.146	(0.648)	0.574
	(Loss Rate Not Used)					
Sum =	100.0			Sum =	12.6	

Flood volume = Effective rainfall 1.05(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.9(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.816(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 256557.9 Cubic Feet
Total soil loss = 35551.9 Cubic Feet

Peak flow rate of this hydrograph = 131.472(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0140	2.04	Q				
0+10	0.0885	10.81	V Q				
0+15	0.2289	20.39	|V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1001100

0+20	0.4105	26.36	V Q
0+25	0.6239	30.98	V Q
0+30	0.8714	35.94	V Q
0+35	1.1617	42.17	VQ
0+40	1.5020	49.40	QV
0+45	1.9131	59.70	QV
0+50	2.5084	86.44	Q
0+55	3.4139	131.47	V Q
1+ 0	4.2570	122.43	Q V
1+ 5	4.7854	76.71	Q V
1+10	5.1152	47.89	Q V
1+15	5.3212	29.91	Q V
1+20	5.4659	21.01	Q V
1+25	5.5734	15.61	Q V
1+30	5.6543	11.75	Q V
1+35	5.7187	9.35	Q V
1+40	5.7683	7.20	Q V
1+45	5.8068	5.58	Q V
1+50	5.8357	4.20	Q V
1+55	5.8573	3.14	Q V
2+ 0	5.8743	2.47	Q V
2+ 5	5.8856	1.64	Q V
2+10	5.8886	0.44	Q V
2+15	5.8898	0.16	Q V

3828EX1003100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1003100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.290	0.146	(	0.261)	0.144
2	0.17	1.30	0.290	0.146	(	0.261)	0.144
3	0.25	1.10	0.245	0.146	(	0.221)	0.099
4	0.33	1.50	0.335	0.146	(	0.301)	0.189
5	0.42	1.50	0.335	0.146	(	0.301)	0.189
6	0.50	1.80	0.402	0.146	(	0.361)	0.256
7	0.58	1.50	0.335	0.146	(	0.301)	0.189
8	0.67	1.80	0.402	0.146	(	0.361)	0.256
9	0.75	1.80	0.402	0.146	(	0.361)	0.256
10	0.83	1.50	0.335	0.146	(	0.301)	0.189
11	0.92	1.60	0.357	0.146	(	0.321)	0.211
12	1.00	1.80	0.402	0.146	(	0.361)	0.256
13	1.08	2.20	0.491	0.146	(	0.442)	0.345
14	1.17	2.20	0.491	0.146	(	0.442)	0.345
15	1.25	2.20	0.491	0.146	(	0.442)	0.345
16	1.33	2.00	0.446	0.146	(	0.402)	0.300
17	1.42	2.60	0.580	0.146	(	0.522)	0.434
18	1.50	2.70	0.602	0.146	(	0.542)	0.457
19	1.58	2.40	0.536	0.146	(	0.482)	0.390
20	1.67	2.70	0.602	0.146	(	0.542)	0.457
21	1.75	3.30	0.736	0.146	(	0.663)	0.590
22	1.83	3.10	0.692	0.146	(	0.623)	0.546
23	1.92	2.90	0.647	0.146	(	0.582)	0.501
24	2.00	3.00	0.669	0.146	(	0.602)	0.523
25	2.08	3.10	0.692	0.146	(	0.623)	0.546
26	2.17	4.20	0.937	0.146	(	0.843)	0.791
27	2.25	5.00	1.116	0.146	(	1.004)	0.970
28	2.33	3.50	0.781	0.146	(	0.703)	0.635
29	2.42	6.80	1.517	0.146	(	1.366)	1.371
30	2.50	7.30	1.629	0.146	(	1.466)	1.483
31	2.58	8.20	1.830	0.146	(	1.647)	1.684
32	2.67	5.90	1.316	0.146	(	1.185)	1.171
33	2.75	2.00	0.446	0.146	(	0.402)	0.300
34	2.83	1.80	0.402	0.146	(	0.361)	0.256
35	2.92	1.80	0.402	0.146	(	0.361)	0.256
36	3.00	0.60	0.134	(0.146)		0.120	0.013
		(Loss Rate Not Used)					
Sum =		100.0				Sum =	17.1

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 1.42(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.0(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.437(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 346774.0 Cubic Feet
Total soil loss = 106138.8 Cubic Feet

Peak flow rate of this hydrograph = 88.283(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0044	0.64	Q				
0+10	0.0277	3.38	VQ				
0+15	0.0688	5.96	V Q				
0+20	0.1149	6.70	V Q				
0+25	0.1712	8.18	V Q				
0+30	0.2420	10.28	V Q				
0+35	0.3254	12.11	V Q				
0+40	0.4145	12.93	V Q				
0+45	0.5096	13.81	V Q				
0+50	0.6117	14.83	V Q				
0+55	0.7104	14.33	V Q				
1+ 0	0.8072	14.05	V Q				
1+ 5	0.9138	15.47	V Q				
1+10	1.0387	18.13	V Q				
1+15	1.1785	20.30	V Q				
1+20	1.3237	21.09	V Q				
1+25	1.4711	21.39	V Q				
1+30	1.6334	23.57	V Q				
1+35	1.8138	26.20	V Q				
1+40	1.9981	26.77	VQ				
1+45	2.1919	28.13	VQ				
1+50	2.4106	31.75	V Q				
1+55	2.6443	33.94	V Q				
2+ 0	2.8772	33.81	VQ				
2+ 5	3.1110	33.96	Q				
2+10	3.3588	35.98	QV				
2+15	3.6494	42.19	Q				
2+20	3.9883	49.22	VQ				
2+25	4.3454	51.84	V Q				
2+30	4.7766	62.61	V Q				
2+35	5.3193	78.80	V Q				
2+40	5.9273	88.28	V Q				
2+45	6.4960	82.57	V Q				
2+50	6.9110	60.26	Q V				
2+55	7.1950	41.24	Q V				
3+ 0	7.4150	31.94	Q V				
3+ 5	7.5727	22.91	Q V				
3+10	7.6770	15.13	Q V				
3+15	7.7519	10.88	Q V				
3+20	7.8089	8.28	Q V				
3+25	7.8529	6.40	Q V				
3+30	7.8861	4.82	Q V				
3+35	7.9110	3.62	Q V				
3+40	7.9302	2.78	Q V				
3+45	7.9437	1.97	Q V				
3+50	7.9527	1.30	Q V				
3+55	7.9572	0.66	Q V				
4+ 0	7.9591	0.28	Q V				
4+ 5	7.9603	0.17	Q V				
4+10	7.9608	0.08	Q V				
4+15	7.9608	0.00	Q V				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1006100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1006100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.146)	0.135	0.015
2	0.17	0.60	0.180	0.146	(0.162)	0.034
3	0.25	0.60	0.180	0.146	(0.162)	0.034
4	0.33	0.60	0.180	0.146	(0.162)	0.034
5	0.42	0.60	0.180	0.146	(0.162)	0.034
6	0.50	0.70	0.210	0.146	(0.189)	0.064
7	0.58	0.70	0.210	0.146	(0.189)	0.064
8	0.67	0.70	0.210	0.146	(0.189)	0.064
9	0.75	0.70	0.210	0.146	(0.189)	0.064
10	0.83	0.70	0.210	0.146	(0.189)	0.064
11	0.92	0.70	0.210	0.146	(0.189)	0.064
12	1.00	0.80	0.240	0.146	(0.216)	0.094
13	1.08	0.80	0.240	0.146	(0.216)	0.094
14	1.17	0.80	0.240	0.146	(0.216)	0.094
15	1.25	0.80	0.240	0.146	(0.216)	0.094
16	1.33	0.80	0.240	0.146	(0.216)	0.094
17	1.42	0.80	0.240	0.146	(0.216)	0.094
18	1.50	0.80	0.240	0.146	(0.216)	0.094
19	1.58	0.80	0.240	0.146	(0.216)	0.094
20	1.67	0.80	0.240	0.146	(0.216)	0.094
21	1.75	0.80	0.240	0.146	(0.216)	0.094
22	1.83	0.80	0.240	0.146	(0.216)	0.094
23	1.92	0.80	0.240	0.146	(0.216)	0.094
24	2.00	0.90	0.270	0.146	(0.243)	0.124
25	2.08	0.80	0.240	0.146	(0.216)	0.094
26	2.17	0.90	0.270	0.146	(0.243)	0.124
27	2.25	0.90	0.270	0.146	(0.243)	0.124
28	2.33	0.90	0.270	0.146	(0.243)	0.124
29	2.42	0.90	0.270	0.146	(0.243)	0.124
30	2.50	0.90	0.270	0.146	(0.243)	0.124
31	2.58	0.90	0.270	0.146	(0.243)	0.124
32	2.67	0.90	0.270	0.146	(0.243)	0.124
33	2.75	1.00	0.300	0.146	(0.270)	0.154
34	2.83	1.00	0.300	0.146	(0.270)	0.154
35	2.92	1.00	0.300	0.146	(0.270)	0.154
36	3.00	1.00	0.300	0.146	(0.270)	0.154
37	3.08	1.00	0.300	0.146	(0.270)	0.154
38	3.17	1.10	0.330	0.146	(0.297)	0.184

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.330	0.146	(0.297)	0.184	
40	3.33	1.10	0.330	0.146	(0.297)	0.184	
41	3.42	1.20	0.360	0.146	(0.324)	0.214	
42	3.50	1.30	0.390	0.146	(0.351)	0.244	
43	3.58	1.40	0.420	0.146	(0.378)	0.274	
44	3.67	1.40	0.420	0.146	(0.378)	0.274	
45	3.75	1.50	0.450	0.146	(0.405)	0.304	
46	3.83	1.50	0.450	0.146	(0.405)	0.304	
47	3.92	1.60	0.480	0.146	(0.432)	0.334	
48	4.00	1.60	0.480	0.146	(0.432)	0.334	
49	4.08	1.70	0.510	0.146	(0.459)	0.364	
50	4.17	1.80	0.540	0.146	(0.486)	0.394	
51	4.25	1.90	0.570	0.146	(0.513)	0.424	
52	4.33	2.00	0.600	0.146	(0.540)	0.454	
53	4.42	2.10	0.630	0.146	(0.567)	0.484	
54	4.50	2.10	0.630	0.146	(0.567)	0.484	
55	4.58	2.20	0.660	0.146	(0.594)	0.514	
56	4.67	2.30	0.690	0.146	(0.621)	0.544	
57	4.75	2.40	0.720	0.146	(0.648)	0.574	
58	4.83	2.40	0.720	0.146	(0.648)	0.574	
59	4.92	2.50	0.750	0.146	(0.675)	0.604	
60	5.00	2.60	0.780	0.146	(0.702)	0.634	
61	5.08	3.10	0.930	0.146	(0.837)	0.784	
62	5.17	3.60	1.080	0.146	(0.972)	0.934	
63	5.25	3.90	1.170	0.146	(1.053)	1.024	
64	5.33	4.20	1.260	0.146	(1.134)	1.114	
65	5.42	4.70	1.410	0.146	(1.269)	1.264	
66	5.50	5.60	1.680	0.146	(1.512)	1.534	
67	5.58	1.90	0.570	0.146	(0.513)	0.424	
68	5.67	0.90	0.270	0.146	(0.243)	0.124	
69	5.75	0.60	0.180	0.146	(0.162)	0.034	
70	5.83	0.50	0.150	(0.146)	0.135	0.015	
71	5.92	0.30	0.090	(0.146)	0.081	0.009	
72	6.00	0.20	0.060	(0.146)	0.054	0.006	

(Loss Rate Not Used)

Sum = 100.0 Sum = 19.7

Flood volume = Effective rainfall 1.64(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.2(Ac.Ft)
Total soil loss = 0.86(In)
Total soil loss = 4.814(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 399112.5 Cubic Feet
Total soil loss = 209679.5 Cubic Feet

Peak flow rate of this hydrograph = 77.753(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0005	0.07	Q	|	|	|	|
0+10	0.0035	0.44	Q	|	|	|	|
0+15	0.0109	1.09	Q	|	|	|	|
0+20	0.0218	1.58	Q	|	|	|	|
0+25	0.0342	1.80	Q	|	|	|	|
0+30	0.0484	2.07	VQ	|	|	|	|
0+35	0.0672	2.73	VQ	|	|	|	|
0+40	0.0905	3.37	VQ	|	|	|	|
0+45	0.1158	3.67	VQ	|	|	|	|
0+50	0.1422	3.84	VQ	|	|	|	|
0+55	0.1696	3.97	VQ	|	|	|	|
1+ 0	0.1985	4.19	V Q	|	|	|	|
1+ 5	0.2317	4.83	|VQ	|	|	|	|
1+10	0.2694	5.46	|VQ	|	|	|	|
1+15	0.3090	5.76	|VQ	|	|	|	|
1+20	0.3498	5.92	|VQ	|	|	|	|
1+25	0.3914	6.04	|V Q	|	|	|	|
1+30	0.4336	6.12	|V Q	|	|	|	|
1+35	0.4762	6.18	| VQ	|	|	|	|
1+40	0.5191	6.23	| VQ	|	|	|	|
1+45	0.5623	6.27	| VQ	|	|	|	|
1+50	0.6056	6.30	| VQ	|	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1006100

1+55	0.6491	6.31	VQ
2+ 0	0.6936	6.46	Q
2+ 5	0.7412	6.91	Q
2+10	0.7899	7.06	Q
2+15	0.8402	7.31	Q
2+20	0.8938	7.78	Q
2+25	0.9487	7.98	QV
2+30	1.0044	8.09	Q
2+35	1.0607	8.17	Q
2+40	1.1173	8.22	Q
2+45	1.1751	8.40	QV
2+50	1.2371	9.00	QV
2+55	1.3032	9.60	QV
3+ 0	1.3712	9.87	QV
3+ 5	1.4402	10.02	QV
3+10	1.5108	10.26	QV
3+15	1.5859	10.90	QV
3+20	1.6654	11.54	Q V
3+25	1.7477	11.96	Q V
3+30	1.8361	12.83	Q V
3+35	1.9341	14.23	QV
3+40	2.0423	15.71	QV
3+45	2.1585	16.87	QV
3+50	2.2822	17.96	QV
3+55	2.4131	19.01	QV
4+ 0	2.5513	20.07	QV
4+ 5	2.6966	21.09	QV
4+10	2.8499	22.26	QV
4+15	3.0142	23.85	Q V
4+20	3.1905	25.61	QV
4+25	3.3795	27.44	QV
4+30	3.5806	29.19	QV
4+35	3.7909	30.54	QV
4+40	4.0107	31.92	Q V
4+45	4.2424	33.64	Q V
4+50	4.4859	35.35	Q V
4+55	4.7385	36.68	Q V
5+ 0	5.0004	38.04	Q V
5+ 5	5.2778	40.28	Q V
5+10	5.5874	44.94	Q V
5+15	5.9435	51.70	Q
5+20	6.3453	58.35	V Q
5+25	6.7907	64.67	V Q
5+30	7.2904	72.55	V Q
5+35	7.8259	77.75	V Q
5+40	8.2610	63.17	Q V
5+45	8.5332	39.53	Q V
5+50	8.7070	25.23	Q V
5+55	8.8272	17.45	Q V
6+ 0	8.9149	12.73	Q V
6+ 5	8.9807	9.56	Q V
6+10	9.0304	7.22	Q V
6+15	9.0688	5.56	Q V
6+20	9.0980	4.25	Q V
6+25	9.1201	3.20	Q V
6+30	9.1362	2.35	Q V
6+35	9.1478	1.67	Q V
6+40	9.1558	1.16	Q V
6+45	9.1604	0.67	Q V
6+50	9.1617	0.19	Q V
6+55	9.1621	0.06	Q V
7+ 0	9.1623	0.02	Q V
7+ 5	9.1623	0.01	Q V
7+10	9.1624	0.00	Q V
7+15	9.1624	0.00	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10024100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10024100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.259)	0.032	0.004
2	0.17	0.07	0.036	(0.258)	0.032	0.004
3	0.25	0.07	0.036	(0.257)	0.032	0.004
4	0.33	0.10	0.054	(0.256)	0.049	0.005
5	0.42	0.10	0.054	(0.255)	0.049	0.005
6	0.50	0.10	0.054	(0.254)	0.049	0.005
7	0.58	0.10	0.054	(0.253)	0.049	0.005
8	0.67	0.10	0.054	(0.252)	0.049	0.005
9	0.75	0.10	0.054	(0.251)	0.049	0.005
10	0.83	0.13	0.072	(0.250)	0.065	0.007
11	0.92	0.13	0.072	(0.249)	0.065	0.007
12	1.00	0.13	0.072	(0.248)	0.065	0.007
13	1.08	0.10	0.054	(0.247)	0.049	0.005
14	1.17	0.10	0.054	(0.246)	0.049	0.005
15	1.25	0.10	0.054	(0.245)	0.049	0.005
16	1.33	0.10	0.054	(0.244)	0.049	0.005
17	1.42	0.10	0.054	(0.243)	0.049	0.005
18	1.50	0.10	0.054	(0.242)	0.049	0.005
19	1.58	0.10	0.054	(0.241)	0.049	0.005
20	1.67	0.10	0.054	(0.240)	0.049	0.005
21	1.75	0.10	0.054	(0.239)	0.049	0.005
22	1.83	0.13	0.072	(0.238)	0.065	0.007
23	1.92	0.13	0.072	(0.237)	0.065	0.007
24	2.00	0.13	0.072	(0.236)	0.065	0.007
25	2.08	0.13	0.072	(0.235)	0.065	0.007
26	2.17	0.13	0.072	(0.234)	0.065	0.007
27	2.25	0.13	0.072	(0.233)	0.065	0.007
28	2.33	0.13	0.072	(0.232)	0.065	0.007
29	2.42	0.13	0.072	(0.231)	0.065	0.007
30	2.50	0.13	0.072	(0.231)	0.065	0.007
31	2.58	0.17	0.090	(0.230)	0.081	0.009
32	2.67	0.17	0.090	(0.229)	0.081	0.009
33	2.75	0.17	0.090	(0.228)	0.081	0.009
34	2.83	0.17	0.090	(0.227)	0.081	0.009
35	2.92	0.17	0.090	(0.226)	0.081	0.009
36	3.00	0.17	0.090	(0.225)	0.081	0.009
37	3.08	0.17	0.090	(0.224)	0.081	0.009
38	3.17	0.17	0.090	(0.223)	0.081	0.009

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.090	(0.222)	0.081	0.009
40	3.33	0.17	0.090	(0.221)	0.081	0.009
41	3.42	0.17	0.090	(0.220)	0.081	0.009
42	3.50	0.17	0.090	(0.219)	0.081	0.009
43	3.58	0.17	0.090	(0.218)	0.081	0.009
44	3.67	0.17	0.090	(0.217)	0.081	0.009
45	3.75	0.17	0.090	(0.217)	0.081	0.009
46	3.83	0.20	0.108	(0.216)	0.097	0.011
47	3.92	0.20	0.108	(0.215)	0.097	0.011
48	4.00	0.20	0.108	(0.214)	0.097	0.011
49	4.08	0.20	0.108	(0.213)	0.097	0.011
50	4.17	0.20	0.108	(0.212)	0.097	0.011
51	4.25	0.20	0.108	(0.211)	0.097	0.011
52	4.33	0.23	0.126	(0.210)	0.113	0.013
53	4.42	0.23	0.126	(0.209)	0.113	0.013
54	4.50	0.23	0.126	(0.208)	0.113	0.013
55	4.58	0.23	0.126	(0.208)	0.113	0.013
56	4.67	0.23	0.126	(0.207)	0.113	0.013
57	4.75	0.23	0.126	(0.206)	0.113	0.013
58	4.83	0.27	0.144	(0.205)	0.130	0.014
59	4.92	0.27	0.144	(0.204)	0.130	0.014
60	5.00	0.27	0.144	(0.203)	0.130	0.014
61	5.08	0.20	0.108	(0.202)	0.097	0.011
62	5.17	0.20	0.108	(0.201)	0.097	0.011
63	5.25	0.20	0.108	(0.200)	0.097	0.011
64	5.33	0.23	0.126	(0.200)	0.113	0.013
65	5.42	0.23	0.126	(0.199)	0.113	0.013
66	5.50	0.23	0.126	(0.198)	0.113	0.013
67	5.58	0.27	0.144	(0.197)	0.130	0.014
68	5.67	0.27	0.144	(0.196)	0.130	0.014
69	5.75	0.27	0.144	(0.195)	0.130	0.014
70	5.83	0.27	0.144	(0.194)	0.130	0.014
71	5.92	0.27	0.144	(0.194)	0.130	0.014
72	6.00	0.27	0.144	(0.193)	0.130	0.014
73	6.08	0.30	0.162	(0.192)	0.146	0.016
74	6.17	0.30	0.162	(0.191)	0.146	0.016
75	6.25	0.30	0.162	(0.190)	0.146	0.016
76	6.33	0.30	0.162	(0.189)	0.146	0.016
77	6.42	0.30	0.162	(0.188)	0.146	0.016
78	6.50	0.30	0.162	(0.188)	0.146	0.016
79	6.58	0.33	0.180	(0.187)	0.162	0.018
80	6.67	0.33	0.180	(0.186)	0.162	0.018
81	6.75	0.33	0.180	(0.185)	0.162	0.018
82	6.83	0.33	0.180	(0.184)	0.162	0.018
83	6.92	0.33	0.180	(0.183)	0.162	0.018
84	7.00	0.33	0.180	(0.183)	0.162	0.018
85	7.08	0.33	0.180	(0.182)	0.162	0.018
86	7.17	0.33	0.180	(0.181)	0.162	0.018
87	7.25	0.33	0.180	(0.180)	0.162	0.018
88	7.33	0.37	0.198	(0.179)	0.178	0.020
89	7.42	0.37	0.198	(0.178)	0.178	0.020
90	7.50	0.37	0.198	0.178	(0.178)	0.020
91	7.58	0.40	0.216	0.177	(0.194)	0.039
92	7.67	0.40	0.216	0.176	(0.194)	0.040
93	7.75	0.40	0.216	0.175	(0.194)	0.041
94	7.83	0.43	0.234	0.174	(0.211)	0.060
95	7.92	0.43	0.234	0.174	(0.211)	0.060
96	8.00	0.43	0.234	0.173	(0.211)	0.061
97	8.08	0.50	0.270	0.172	(0.243)	0.098
98	8.17	0.50	0.270	0.171	(0.243)	0.099
99	8.25	0.50	0.270	0.170	(0.243)	0.100
100	8.33	0.50	0.270	0.170	(0.243)	0.100
101	8.42	0.50	0.270	0.169	(0.243)	0.101
102	8.50	0.50	0.270	0.168	(0.243)	0.102
103	8.58	0.53	0.288	0.167	(0.259)	0.121
104	8.67	0.53	0.288	0.166	(0.259)	0.122
105	8.75	0.53	0.288	0.166	(0.259)	0.122
106	8.83	0.57	0.306	0.165	(0.275)	0.141
107	8.92	0.57	0.306	0.164	(0.275)	0.142
108	9.00	0.57	0.306	0.163	(0.275)	0.143
109	9.08	0.63	0.342	0.162	(0.308)	0.179
110	9.17	0.63	0.342	0.162	(0.308)	0.180
111	9.25	0.63	0.342	0.161	(0.308)	0.181
112	9.33	0.67	0.360	0.160	(0.324)	0.200
113	9.42	0.67	0.360	0.159	(0.324)	0.201
114	9.50	0.67	0.360	0.159	(0.324)	0.201
115	9.58	0.70	0.378	0.158	(0.340)	0.220

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

116	9.67	0.70	0.378	0.157	(	0.340)	0.221
117	9.75	0.70	0.378	0.156	(	0.340)	0.222
118	9.83	0.73	0.396	0.156	(	0.356)	0.240
119	9.92	0.73	0.396	0.155	(	0.356)	0.241
120	10.00	0.73	0.396	0.154	(	0.356)	0.242
121	10.08	0.50	0.270	0.153	(	0.243)	0.117
122	10.17	0.50	0.270	0.153	(	0.243)	0.117
123	10.25	0.50	0.270	0.152	(	0.243)	0.118
124	10.33	0.50	0.270	0.151	(	0.243)	0.119
125	10.42	0.50	0.270	0.150	(	0.243)	0.120
126	10.50	0.50	0.270	0.150	(	0.243)	0.120
127	10.58	0.67	0.360	0.149	(	0.324)	0.211
128	10.67	0.67	0.360	0.148	(	0.324)	0.212
129	10.75	0.67	0.360	0.148	(	0.324)	0.212
130	10.83	0.67	0.360	0.147	(	0.324)	0.213
131	10.92	0.67	0.360	0.146	(	0.324)	0.214
132	11.00	0.67	0.360	0.145	(	0.324)	0.215
133	11.08	0.63	0.342	0.145	(	0.308)	0.197
134	11.17	0.63	0.342	0.144	(	0.308)	0.198
135	11.25	0.63	0.342	0.143	(	0.308)	0.199
136	11.33	0.63	0.342	0.143	(	0.308)	0.199
137	11.42	0.63	0.342	0.142	(	0.308)	0.200
138	11.50	0.63	0.342	0.141	(	0.308)	0.201
139	11.58	0.57	0.306	0.140	(	0.275)	0.166
140	11.67	0.57	0.306	0.140	(	0.275)	0.166
141	11.75	0.57	0.306	0.139	(	0.275)	0.167
142	11.83	0.60	0.324	0.138	(	0.292)	0.186
143	11.92	0.60	0.324	0.138	(	0.292)	0.186
144	12.00	0.60	0.324	0.137	(	0.292)	0.187
145	12.08	0.83	0.450	0.136	(	0.405)	0.314
146	12.17	0.83	0.450	0.136	(	0.405)	0.314
147	12.25	0.83	0.450	0.135	(	0.405)	0.315
148	12.33	0.87	0.468	0.134	(	0.421)	0.334
149	12.42	0.87	0.468	0.134	(	0.421)	0.334
150	12.50	0.87	0.468	0.133	(	0.421)	0.335
151	12.58	0.93	0.504	0.132	(	0.454)	0.372
152	12.67	0.93	0.504	0.132	(	0.454)	0.372
153	12.75	0.93	0.504	0.131	(	0.454)	0.373
154	12.83	0.97	0.522	0.130	(	0.470)	0.392
155	12.92	0.97	0.522	0.130	(	0.470)	0.392
156	13.00	0.97	0.522	0.129	(	0.470)	0.393
157	13.08	1.13	0.612	0.128	(	0.551)	0.484
158	13.17	1.13	0.612	0.128	(	0.551)	0.484
159	13.25	1.13	0.612	0.127	(	0.551)	0.485
160	13.33	1.13	0.612	0.126	(	0.551)	0.486
161	13.42	1.13	0.612	0.126	(	0.551)	0.486
162	13.50	1.13	0.612	0.125	(	0.551)	0.487
163	13.58	0.77	0.414	0.124	(	0.373)	0.290
164	13.67	0.77	0.414	0.124	(	0.373)	0.290
165	13.75	0.77	0.414	0.123	(	0.373)	0.291
166	13.83	0.77	0.414	0.122	(	0.373)	0.291
167	13.92	0.77	0.414	0.122	(	0.373)	0.292
168	14.00	0.77	0.414	0.121	(	0.373)	0.293
169	14.08	0.90	0.486	0.121	(	0.437)	0.365
170	14.17	0.90	0.486	0.120	(	0.437)	0.366
171	14.25	0.90	0.486	0.119	(	0.437)	0.367
172	14.33	0.87	0.468	0.119	(	0.421)	0.349
173	14.42	0.87	0.468	0.118	(	0.421)	0.350
174	14.50	0.87	0.468	0.118	(	0.421)	0.350
175	14.58	0.87	0.468	0.117	(	0.421)	0.351
176	14.67	0.87	0.468	0.116	(	0.421)	0.352
177	14.75	0.87	0.468	0.116	(	0.421)	0.352
178	14.83	0.83	0.450	0.115	(	0.405)	0.335
179	14.92	0.83	0.450	0.115	(	0.405)	0.335
180	15.00	0.83	0.450	0.114	(	0.405)	0.336
181	15.08	0.80	0.432	0.113	(	0.389)	0.319
182	15.17	0.80	0.432	0.113	(	0.389)	0.319
183	15.25	0.80	0.432	0.112	(	0.389)	0.320
184	15.33	0.77	0.414	0.112	(	0.373)	0.302
185	15.42	0.77	0.414	0.111	(	0.373)	0.303
186	15.50	0.77	0.414	0.111	(	0.373)	0.303
187	15.58	0.63	0.342	0.110	(	0.308)	0.232
188	15.67	0.63	0.342	0.109	(	0.308)	0.233
189	15.75	0.63	0.342	0.109	(	0.308)	0.233
190	15.83	0.63	0.342	0.108	(	0.308)	0.234
191	15.92	0.63	0.342	0.108	(	0.308)	0.234
192	16.00	0.63	0.342	0.107	(	0.308)	0.235

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.072	(0.107)	0.065	0.007
194	16.17	0.13	0.072	(0.106)	0.065	0.007
195	16.25	0.13	0.072	(0.106)	0.065	0.007
196	16.33	0.13	0.072	(0.105)	0.065	0.007
197	16.42	0.13	0.072	(0.104)	0.065	0.007
198	16.50	0.13	0.072	(0.104)	0.065	0.007
199	16.58	0.10	0.054	(0.103)	0.049	0.005
200	16.67	0.10	0.054	(0.103)	0.049	0.005
201	16.75	0.10	0.054	(0.102)	0.049	0.005
202	16.83	0.10	0.054	(0.102)	0.049	0.005
203	16.92	0.10	0.054	(0.101)	0.049	0.005
204	17.00	0.10	0.054	(0.101)	0.049	0.005
205	17.08	0.17	0.090	(0.100)	0.081	0.009
206	17.17	0.17	0.090	(0.100)	0.081	0.009
207	17.25	0.17	0.090	(0.099)	0.081	0.009
208	17.33	0.17	0.090	(0.099)	0.081	0.009
209	17.42	0.17	0.090	(0.098)	0.081	0.009
210	17.50	0.17	0.090	(0.098)	0.081	0.009
211	17.58	0.17	0.090	(0.097)	0.081	0.009
212	17.67	0.17	0.090	(0.097)	0.081	0.009
213	17.75	0.17	0.090	(0.096)	0.081	0.009
214	17.83	0.13	0.072	(0.096)	0.065	0.007
215	17.92	0.13	0.072	(0.095)	0.065	0.007
216	18.00	0.13	0.072	(0.095)	0.065	0.007
217	18.08	0.13	0.072	(0.094)	0.065	0.007
218	18.17	0.13	0.072	(0.094)	0.065	0.007
219	18.25	0.13	0.072	(0.094)	0.065	0.007
220	18.33	0.13	0.072	(0.093)	0.065	0.007
221	18.42	0.13	0.072	(0.093)	0.065	0.007
222	18.50	0.13	0.072	(0.092)	0.065	0.007
223	18.58	0.10	0.054	(0.092)	0.049	0.005
224	18.67	0.10	0.054	(0.091)	0.049	0.005
225	18.75	0.10	0.054	(0.091)	0.049	0.005
226	18.83	0.07	0.036	(0.090)	0.032	0.004
227	18.92	0.07	0.036	(0.090)	0.032	0.004
228	19.00	0.07	0.036	(0.090)	0.032	0.004
229	19.08	0.10	0.054	(0.089)	0.049	0.005
230	19.17	0.10	0.054	(0.089)	0.049	0.005
231	19.25	0.10	0.054	(0.088)	0.049	0.005
232	19.33	0.13	0.072	(0.088)	0.065	0.007
233	19.42	0.13	0.072	(0.087)	0.065	0.007
234	19.50	0.13	0.072	(0.087)	0.065	0.007
235	19.58	0.10	0.054	(0.087)	0.049	0.005
236	19.67	0.10	0.054	(0.086)	0.049	0.005
237	19.75	0.10	0.054	(0.086)	0.049	0.005
238	19.83	0.07	0.036	(0.086)	0.032	0.004
239	19.92	0.07	0.036	(0.085)	0.032	0.004
240	20.00	0.07	0.036	(0.085)	0.032	0.004
241	20.08	0.10	0.054	(0.084)	0.049	0.005
242	20.17	0.10	0.054	(0.084)	0.049	0.005
243	20.25	0.10	0.054	(0.084)	0.049	0.005
244	20.33	0.10	0.054	(0.083)	0.049	0.005
245	20.42	0.10	0.054	(0.083)	0.049	0.005
246	20.50	0.10	0.054	(0.083)	0.049	0.005
247	20.58	0.10	0.054	(0.082)	0.049	0.005
248	20.67	0.10	0.054	(0.082)	0.049	0.005
249	20.75	0.10	0.054	(0.082)	0.049	0.005
250	20.83	0.07	0.036	(0.081)	0.032	0.004
251	20.92	0.07	0.036	(0.081)	0.032	0.004
252	21.00	0.07	0.036	(0.081)	0.032	0.004
253	21.08	0.10	0.054	(0.080)	0.049	0.005
254	21.17	0.10	0.054	(0.080)	0.049	0.005
255	21.25	0.10	0.054	(0.080)	0.049	0.005
256	21.33	0.07	0.036	(0.079)	0.032	0.004
257	21.42	0.07	0.036	(0.079)	0.032	0.004
258	21.50	0.07	0.036	(0.079)	0.032	0.004
259	21.58	0.10	0.054	(0.078)	0.049	0.005
260	21.67	0.10	0.054	(0.078)	0.049	0.005
261	21.75	0.10	0.054	(0.078)	0.049	0.005
262	21.83	0.07	0.036	(0.078)	0.032	0.004
263	21.92	0.07	0.036	(0.077)	0.032	0.004
264	22.00	0.07	0.036	(0.077)	0.032	0.004
265	22.08	0.10	0.054	(0.077)	0.049	0.005
266	22.17	0.10	0.054	(0.077)	0.049	0.005
267	22.25	0.10	0.054	(0.076)	0.049	0.005
268	22.33	0.07	0.036	(0.076)	0.032	0.004
269	22.42	0.07	0.036	(0.076)	0.032	0.004

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.036	(0.076)	0.032	0.004
271	22.58	0.07	0.036	(0.075)	0.032	0.004
272	22.67	0.07	0.036	(0.075)	0.032	0.004
273	22.75	0.07	0.036	(0.075)	0.032	0.004
274	22.83	0.07	0.036	(0.075)	0.032	0.004
275	22.92	0.07	0.036	(0.075)	0.032	0.004
276	23.00	0.07	0.036	(0.074)	0.032	0.004
277	23.08	0.07	0.036	(0.074)	0.032	0.004
278	23.17	0.07	0.036	(0.074)	0.032	0.004
279	23.25	0.07	0.036	(0.074)	0.032	0.004
280	23.33	0.07	0.036	(0.074)	0.032	0.004
281	23.42	0.07	0.036	(0.074)	0.032	0.004
282	23.50	0.07	0.036	(0.074)	0.032	0.004
283	23.58	0.07	0.036	(0.073)	0.032	0.004
284	23.67	0.07	0.036	(0.073)	0.032	0.004
285	23.75	0.07	0.036	(0.073)	0.032	0.004
286	23.83	0.07	0.036	(0.073)	0.032	0.004
287	23.92	0.07	0.036	(0.073)	0.032	0.004
288	24.00	0.07	0.036	(0.073)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 26.3

Flood volume = Effective rainfall 2.19(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.3(Ac.Ft)
Total soil loss = 2.31(In)
Total soil loss = 12.893(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 534307.9 Cubic Feet
Total soil loss = 561626.9 Cubic Feet

Peak flow rate of this hydrograph = 31.869(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

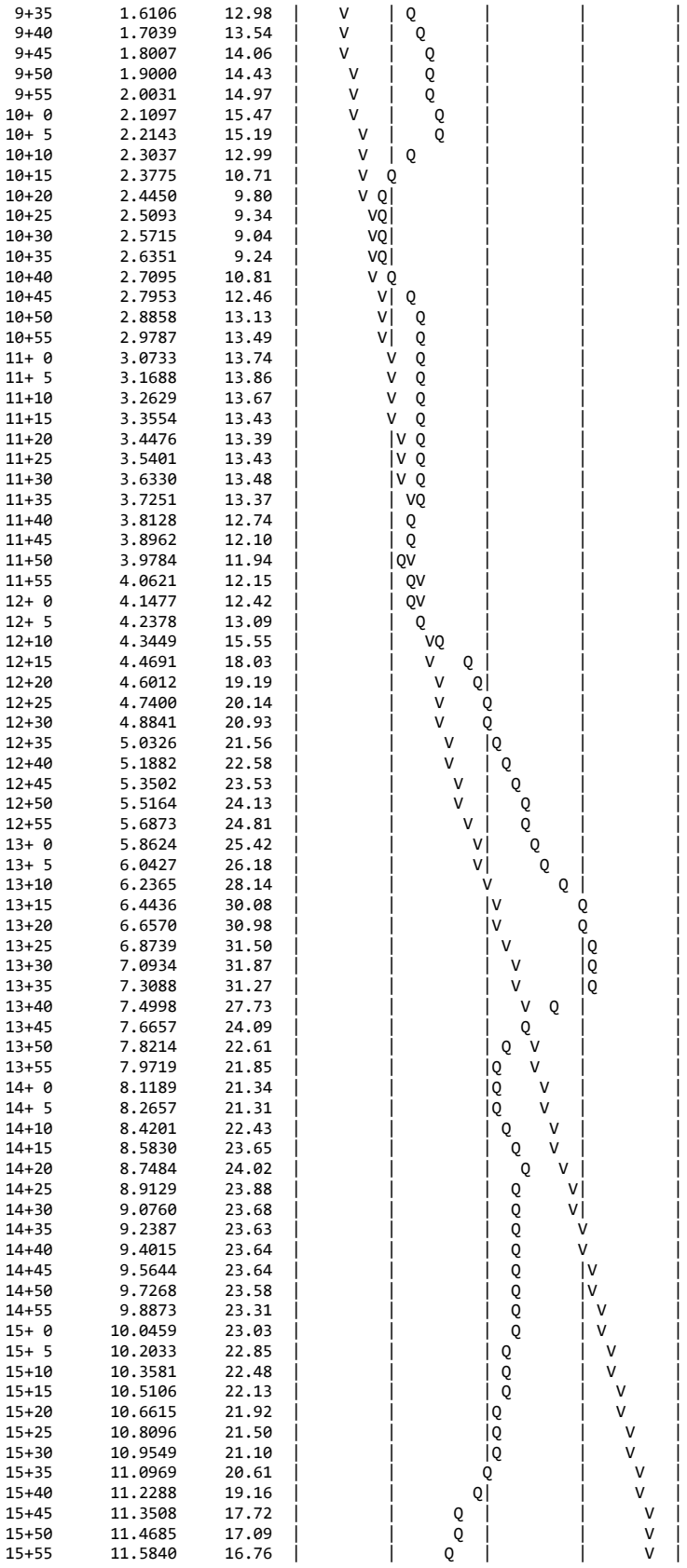
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0001	0.02	Q				
0+10	0.0007	0.08	Q				
0+15	0.0018	0.15	Q				
0+20	0.0031	0.19	Q				
0+25	0.0047	0.24	Q				
0+30	0.0067	0.29	Q				
0+35	0.0089	0.31	Q				
0+40	0.0111	0.32	Q				
0+45	0.0134	0.33	Q				
0+50	0.0158	0.35	Q				
0+55	0.0185	0.39	Q				
1+ 0	0.0215	0.43	Q				
1+ 5	0.0245	0.44	Q				
1+10	0.0274	0.42	Q				
1+15	0.0300	0.39	Q				
1+20	0.0327	0.38	Q				
1+25	0.0353	0.38	Q				
1+30	0.0378	0.37	Q				
1+35	0.0404	0.37	Q				
1+40	0.0430	0.37	Q				
1+45	0.0455	0.37	Q				
1+50	0.0481	0.38	Q				
1+55	0.0509	0.41	Q				
2+ 0	0.0540	0.44	Q				
2+ 5	0.0572	0.46	Q				
2+10	0.0604	0.47	Q				
2+15	0.0636	0.47	Q				
2+20	0.0669	0.47	Q				
2+25	0.0702	0.48	Q				
2+30	0.0735	0.48	Q				
2+35	0.0768	0.49	Q				
2+40	0.0805	0.53	Q				
2+45	0.0843	0.56	Q				
2+50	0.0883	0.58	Q				
2+55	0.0923	0.59	Q				
3+ 0	0.0964	0.59	Q				
3+ 5	0.1005	0.60	Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.1047	0.60	Q	|	|	|	|
3+15	0.1088	0.60	Q	|	|	|	|
3+20	0.1130	0.60	Q	|	|	|	|
3+25	0.1171	0.61	Q	|	|	|	|
3+30	0.1213	0.61	Q	|	|	|	|
3+35	0.1255	0.61	Q	|	|	|	|
3+40	0.1297	0.61	Q	|	|	|	|
3+45	0.1339	0.61	Q	|	|	|	|
3+50	0.1381	0.62	Q	|	|	|	|
3+55	0.1426	0.65	Q	|	|	|	|
4+ 0	0.1473	0.69	Q	|	|	|	|
4+ 5	0.1521	0.70	Q	|	|	|	|
4+10	0.1570	0.71	Q	|	|	|	|
4+15	0.1619	0.71	Q	|	|	|	|
4+20	0.1669	0.73	Q	|	|	|	|
4+25	0.1722	0.76	Q	|	|	|	|
4+30	0.1777	0.80	Q	|	|	|	|
4+35	0.1833	0.82	Q	|	|	|	|
4+40	0.1890	0.83	Q	|	|	|	|
4+45	0.1948	0.83	Q	|	|	|	|
4+50	0.2006	0.85	Q	|	|	|	|
4+55	0.2067	0.88	Q	|	|	|	|
5+ 0	0.2130	0.92	Q	|	|	|	|
5+ 5	0.2194	0.92	Q	|	|	|	|
5+10	0.2253	0.86	Q	|	|	|	|
5+15	0.2309	0.80	Q	|	|	|	|
5+20	0.2363	0.78	Q	|	|	|	|
5+25	0.2418	0.81	Q	|	|	|	|
5+30	0.2475	0.83	Q	|	|	|	|
5+35	0.2534	0.85	Q	|	|	|	|
5+40	0.2595	0.89	Q	|	|	|	|
5+45	0.2659	0.92	Q	|	|	|	|
5+50	0.2724	0.94	Q	|	|	|	|
5+55	0.2789	0.95	Q	|	|	|	|
6+ 0	0.2855	0.96	Q	|	|	|	|
6+ 5	0.2921	0.97	Q	|	|	|	|
6+10	0.2991	1.01	VQ	|	|	|	|
6+15	0.3062	1.04	VQ	|	|	|	|
6+20	0.3135	1.06	|Q	|	|	|	|
6+25	0.3209	1.07	|Q	|	|	|	|
6+30	0.3283	1.08	|Q	|	|	|	|
6+35	0.3358	1.09	|Q	|	|	|	|
6+40	0.3436	1.13	|Q	|	|	|	|
6+45	0.3516	1.17	|Q	|	|	|	|
6+50	0.3598	1.18	|Q	|	|	|	|
6+55	0.3680	1.19	|Q	|	|	|	|
7+ 0	0.3762	1.20	|Q	|	|	|	|
7+ 5	0.3845	1.20	|Q	|	|	|	|
7+10	0.3928	1.21	|Q	|	|	|	|
7+15	0.4012	1.21	|Q	|	|	|	|
7+20	0.4096	1.22	|Q	|	|	|	|
7+25	0.4182	1.26	|Q	|	|	|	|
7+30	0.4271	1.29	|Q	|	|	|	|
7+35	0.4368	1.40	|Q	|	|	|	|
7+40	0.4491	1.79	|Q	|	|	|	|
7+45	0.4641	2.18	|VQ	|	|	|	|
7+50	0.4810	2.46	|VQ	|	|	|	|
7+55	0.5012	2.93	|VQ	|	|	|	|
8+ 0	0.5245	3.38	|V Q	|	|	|	|
8+ 5	0.5505	3.78	|V Q	|	|	|	|
8+10	0.5824	4.63	|V Q	|	|	|	|
8+15	0.6200	5.46	| V Q	|	|	|	|
8+20	0.6604	5.86	| V Q	|	|	|	|
8+25	0.7026	6.12	| V Q	|	|	|	|
8+30	0.7461	6.32	| V Q	|	|	|	|
8+35	0.7913	6.56	| V Q	|	|	|	|
8+40	0.8398	7.04	| V Q	|	|	|	|
8+45	0.8914	7.50	| V Q	|	|	|	|
8+50	0.9454	7.84	| V Q	|	|	|	|
8+55	1.0029	8.35	| V Q	|	|	|	|
9+ 0	1.0637	8.83	| V Q	|	|	|	|
9+ 5	1.1274	9.26	| V Q|	|	|	|	|
9+10	1.1971	10.12	| V Q	|	|	|	|
9+15	1.2726	10.95	| V Q	|	|	|	|
9+20	1.3514	11.45	| V |Q	|	|	|	|
9+25	1.4344	12.05	| V | Q	|	|	|	|
9+30	1.5212	12.60	| V | Q	|	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



9+35	1.6106	12.98	V Q
9+40	1.7039	13.54	V Q
9+45	1.8007	14.06	V Q
9+50	1.9000	14.43	V Q
9+55	2.0031	14.97	V Q
10+ 0	2.1097	15.47	V Q
10+ 5	2.2143	15.19	V Q
10+10	2.3037	12.99	V Q
10+15	2.3775	10.71	V Q
10+20	2.4450	9.80	V Q
10+25	2.5093	9.34	VQ
10+30	2.5715	9.04	VQ
10+35	2.6351	9.24	VQ
10+40	2.7095	10.81	V Q
10+45	2.7953	12.46	V Q
10+50	2.8858	13.13	V Q
10+55	2.9787	13.49	V Q
11+ 0	3.0733	13.74	V Q
11+ 5	3.1688	13.86	V Q
11+10	3.2629	13.67	V Q
11+15	3.3554	13.43	V Q
11+20	3.4476	13.39	V Q
11+25	3.5401	13.43	V Q
11+30	3.6330	13.48	V Q
11+35	3.7251	13.37	VQ
11+40	3.8128	12.74	Q
11+45	3.8962	12.10	Q
11+50	3.9784	11.94	QV
11+55	4.0621	12.15	QV
12+ 0	4.1477	12.42	QV
12+ 5	4.2378	13.09	Q
12+10	4.3449	15.55	VQ
12+15	4.4691	18.03	V Q
12+20	4.6012	19.19	V Q
12+25	4.7400	20.14	V Q
12+30	4.8841	20.93	V Q
12+35	5.0326	21.56	V Q
12+40	5.1882	22.58	V Q
12+45	5.3502	23.53	V Q
12+50	5.5164	24.13	V Q
12+55	5.6873	24.81	V Q
13+ 0	5.8624	25.42	V Q
13+ 5	6.0427	26.18	V Q
13+10	6.2365	28.14	V Q
13+15	6.4436	30.08	V Q
13+20	6.6570	30.98	V Q
13+25	6.8739	31.50	V Q
13+30	7.0934	31.87	V Q
13+35	7.3088	31.27	V Q
13+40	7.4998	27.73	V Q
13+45	7.6657	24.09	Q
13+50	7.8214	22.61	Q V
13+55	7.9719	21.85	Q V
14+ 0	8.1189	21.34	Q V
14+ 5	8.2657	21.31	Q V
14+10	8.4201	22.43	Q V
14+15	8.5830	23.65	Q V
14+20	8.7484	24.02	Q V
14+25	8.9129	23.88	Q V
14+30	9.0760	23.68	Q V
14+35	9.2387	23.63	Q V
14+40	9.4015	23.64	Q V
14+45	9.5644	23.64	Q V
14+50	9.7268	23.58	Q V
14+55	9.8873	23.31	Q V
15+ 0	10.0459	23.03	Q V
15+ 5	10.2033	22.85	Q V
15+10	10.3581	22.48	Q V
15+15	10.5106	22.13	Q V
15+20	10.6615	21.92	Q V
15+25	10.8096	21.50	Q V
15+30	10.9549	21.10	Q V
15+35	11.0969	20.61	Q V
15+40	11.2288	19.16	Q V
15+45	11.3508	17.72	Q V
15+50	11.4685	17.09	Q V
15+55	11.5840	16.76	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10024100

16+ 0	11.6978	16.53	|	|	Q	|	|	V |
16+ 5	11.8036	15.36	|	|	Q	|	|	V |
16+10	11.8789	10.92	|	Q	|	|	|	V |
16+15	11.9232	6.44	|	Q	|	|	|	V |
16+20	11.9541	4.48	|	Q	|	|	|	V |
16+25	11.9775	3.41	|	Q	|	|	|	V|
16+30	11.9958	2.65	|	Q	|	|	|	V|
16+35	12.0103	2.10	|	Q	|	|	|	V|
16+40	12.0218	1.67	|	Q	|	|	|	V|
16+45	12.0309	1.33	|	Q	|	|	|	V|
16+50	12.0382	1.06	|	Q	|	|	|	V|
16+55	12.0442	0.87	|	Q	|	|	|	V|
17+ 0	12.0492	0.72	|	Q	|	|	|	V|
17+ 5	12.0534	0.62	|	Q	|	|	|	V|
17+10	12.0576	0.60	|	Q	|	|	|	V|
17+15	12.0617	0.59	|	Q	|	|	|	V|
17+20	12.0655	0.55	|	Q	|	|	|	V|
17+25	12.0694	0.57	|	Q	|	|	|	V|
17+30	12.0734	0.58	|	Q	|	|	|	V|
17+35	12.0774	0.59	|	Q	|	|	|	V|
17+40	12.0815	0.59	|	Q	|	|	|	V|
17+45	12.0856	0.60	|	Q	|	|	|	V|
17+50	12.0897	0.59	|	Q	|	|	|	V|
17+55	12.0935	0.56	|	Q	|	|	|	V|
18+ 0	12.0971	0.53	|	Q	|	|	|	V|
18+ 5	12.1007	0.51	|	Q	|	|	|	V|
18+10	12.1042	0.51	|	Q	|	|	|	V|
18+15	12.1076	0.50	|	Q	|	|	|	V|
18+20	12.1111	0.50	|	Q	|	|	|	V|
18+25	12.1145	0.50	|	Q	|	|	|	V|
18+30	12.1179	0.49	|	Q	|	|	|	V|
18+35	12.1212	0.48	|	Q	|	|	|	V|
18+40	12.1243	0.45	|	Q	|	|	|	V|
18+45	12.1272	0.41	|	Q	|	|	|	V|
18+50	12.1298	0.39	|	Q	|	|	|	V|
18+55	12.1322	0.35	|	Q	|	|	|	V|
19+ 0	12.1343	0.31	|	Q	|	|	|	V|
19+ 5	12.1363	0.29	|	Q	|	|	|	V|
19+10	12.1385	0.32	|	Q	|	|	|	V|
19+15	12.1409	0.34	|	Q	|	|	|	V|
19+20	12.1434	0.36	|	Q	|	|	|	V|
19+25	12.1461	0.40	|	Q	|	|	|	V|
19+30	12.1491	0.44	|	Q	|	|	|	V|
19+35	12.1522	0.44	|	Q	|	|	|	V|
19+40	12.1551	0.42	|	Q	|	|	|	V|
19+45	12.1578	0.39	|	Q	|	|	|	V|
19+50	12.1603	0.37	|	Q	|	|	|	V|
19+55	12.1626	0.33	|	Q	|	|	|	V|
20+ 0	12.1646	0.30	|	Q	|	|	|	V|
20+ 5	12.1666	0.29	|	Q	|	|	|	V|
20+10	12.1688	0.31	|	Q	|	|	|	V|
20+15	12.1711	0.34	|	Q	|	|	|	V|
20+20	12.1735	0.35	|	Q	|	|	|	V|
20+25	12.1760	0.36	|	Q	|	|	|	V|
20+30	12.1784	0.36	|	Q	|	|	|	V|
20+35	12.1809	0.36	|	Q	|	|	|	V|
20+40	12.1834	0.36	|	Q	|	|	|	V|
20+45	12.1859	0.36	|	Q	|	|	|	V|
20+50	12.1883	0.35	|	Q	|	|	|	V|
20+55	12.1905	0.32	|	Q	|	|	|	V|
21+ 0	12.1925	0.29	|	Q	|	|	|	V|
21+ 5	12.1944	0.28	|	Q	|	|	|	V|
21+10	12.1966	0.31	|	Q	|	|	|	V|
21+15	12.1989	0.34	|	Q	|	|	|	V|
21+20	12.2012	0.34	|	Q	|	|	|	V|
21+25	12.2033	0.31	|	Q	|	|	|	V|
21+30	12.2053	0.28	|	Q	|	|	|	V|
21+35	12.2072	0.27	|	Q	|	|	|	V|
21+40	12.2092	0.30	|	Q	|	|	|	V|
21+45	12.2115	0.33	|	Q	|	|	|	V|
21+50	12.2138	0.34	|	Q	|	|	|	V|
21+55	12.2160	0.31	|	Q	|	|	|	V|
22+ 0	12.2179	0.28	|	Q	|	|	|	V|
22+ 5	12.2198	0.27	|	Q	|	|	|	V|
22+10	12.2218	0.30	|	Q	|	|	|	V|
22+15	12.2241	0.33	|	Q	|	|	|	V|
22+20	12.2264	0.34	|	Q	|	|	|	V|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10024100

22+25	12.2285	0.31	Q	|	|	|	V|
22+30	12.2305	0.28	Q	|	|	|	V|
22+35	12.2323	0.26	Q	|	|	|	V|
22+40	12.2341	0.26	Q	|	|	|	V|
22+45	12.2358	0.25	Q	|	|	|	V|
22+50	12.2376	0.25	Q	|	|	|	V|
22+55	12.2393	0.25	Q	|	|	|	V|
23+ 0	12.2410	0.25	Q	|	|	|	V|
23+ 5	12.2427	0.25	Q	|	|	|	V|
23+10	12.2444	0.25	Q	|	|	|	V|
23+15	12.2461	0.25	Q	|	|	|	V|
23+20	12.2478	0.25	Q	|	|	|	V|
23+25	12.2494	0.24	Q	|	|	|	V|
23+30	12.2511	0.24	Q	|	|	|	V|
23+35	12.2528	0.24	Q	|	|	|	V|
23+40	12.2545	0.24	Q	|	|	|	V|
23+45	12.2562	0.24	Q	|	|	|	V|
23+50	12.2578	0.24	Q	|	|	|	V|
23+55	12.2595	0.24	Q	|	|	|	V|
24+ 0	12.2612	0.24	Q	|	|	|	V|
24+ 5	12.2628	0.23	Q	|	|	|	V|
24+10	12.2639	0.16	Q	|	|	|	V|
24+15	12.2645	0.09	Q	|	|	|	V|
24+20	12.2649	0.06	Q	|	|	|	V|
24+25	12.2652	0.04	Q	|	|	|	V|
24+30	12.2654	0.03	Q	|	|	|	V|
24+35	12.2656	0.02	Q	|	|	|	V|
24+40	12.2657	0.02	Q	|	|	|	V|
24+45	12.2658	0.01	Q	|	|	|	V|
24+50	12.2659	0.01	Q	|	|	|	V|
24+55	12.2659	0.01	Q	|	|	|	V|
25+ 0	12.2660	0.01	Q	|	|	|	V|
25+ 5	12.2660	0.00	Q	|	|	|	V|
25+10	12.2660	0.00	Q	|	|	|	V|
25+15	12.2660	0.00	Q	|	|	|	V

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR212.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.134)	0.025	0.227
2	0.17	4.30	0.258	(0.134)	0.026	0.232
3	0.25	5.00	0.300	(0.134)	0.030	0.270
4	0.33	5.00	0.300	(0.134)	0.030	0.270
5	0.42	5.80	0.348	(0.134)	0.035	0.313
6	0.50	6.50	0.390	(0.134)	0.039	0.351
7	0.58	7.40	0.444	(0.134)	0.044	0.399
8	0.67	8.60	0.516	(0.134)	0.052	0.464
9	0.75	12.30	0.738	(0.134)	0.074	0.664
10	0.83	29.10	1.745	0.134	(0.174)	1.611
11	0.92	6.80	0.408	(0.134)	0.041	0.367
12	1.00	5.00	0.300	(0.134)	0.030	0.270
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.4

Flood volume = Effective rainfall 0.45(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.5(Ac.Ft)
Total soil loss = 0.05(In)
Total soil loss = 0.261(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 110360.3 Cubic Feet
Total soil loss = 11352.2 Cubic Feet

Peak flow rate of this hydrograph = 69.176(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	17.5	35.0	52.5	70.0
0+ 5	0.0218	3.16	VQ				
0+10	0.0955	10.70	V Q				
0+15	0.1898	13.70	V Q				
0+20	0.3004	16.05	V Q				
0+25	0.4219	17.64	V Q				
0+30	0.5607	20.15	V Q				
0+35	0.7180	22.84	V Q				
0+40	0.8983	26.18	Q				
0+45	1.1181	31.92	VQ				
0+50	1.4816	52.78	V	Q			
0+55	1.9580	69.18	V			Q	

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR212

1+ 0	2.2176	37.69	|	|	Q	|	V	|
1+ 5	2.3773	23.20	|	| Q	|	|	V |
1+10	2.4493	10.45	| Q	|	|	|	V |
1+15	2.4898	5.88	| Q	|	|	|	V|
1+20	2.5135	3.44	|Q	|	|	|	V|
1+25	2.5281	2.13	|Q	|	|	|	V|
1+30	2.5320	0.57	Q	|	|	|	V|
1+35	2.5335	0.22	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR232.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.134)	0.012	0.112
2	0.17	1.30	0.125	(0.134)	0.012	0.112
3	0.25	1.10	0.106	(0.134)	0.011	0.095
4	0.33	1.50	0.144	(0.134)	0.014	0.130
5	0.42	1.50	0.144	(0.134)	0.014	0.130
6	0.50	1.80	0.173	(0.134)	0.017	0.155
7	0.58	1.50	0.144	(0.134)	0.014	0.130
8	0.67	1.80	0.173	(0.134)	0.017	0.155
9	0.75	1.80	0.173	(0.134)	0.017	0.155
10	0.83	1.50	0.144	(0.134)	0.014	0.130
11	0.92	1.60	0.154	(0.134)	0.015	0.138
12	1.00	1.80	0.173	(0.134)	0.017	0.155
13	1.08	2.20	0.211	(0.134)	0.021	0.190
14	1.17	2.20	0.211	(0.134)	0.021	0.190
15	1.25	2.20	0.211	(0.134)	0.021	0.190
16	1.33	2.00	0.192	(0.134)	0.019	0.173
17	1.42	2.60	0.250	(0.134)	0.025	0.225
18	1.50	2.70	0.259	(0.134)	0.026	0.233
19	1.58	2.40	0.230	(0.134)	0.023	0.207
20	1.67	2.70	0.259	(0.134)	0.026	0.233
21	1.75	3.30	0.317	(0.134)	0.032	0.285
22	1.83	3.10	0.298	(0.134)	0.030	0.268
23	1.92	2.90	0.278	(0.134)	0.028	0.250
24	2.00	3.00	0.288	(0.134)	0.029	0.259
25	2.08	3.10	0.298	(0.134)	0.030	0.268
26	2.17	4.20	0.403	(0.134)	0.040	0.363
27	2.25	5.00	0.480	(0.134)	0.048	0.432
28	2.33	3.50	0.336	(0.134)	0.034	0.302
29	2.42	6.80	0.653	(0.134)	0.065	0.587
30	2.50	7.30	0.701	(0.134)	0.070	0.631
31	2.58	8.20	0.787	(0.134)	0.079	0.708
32	2.67	5.90	0.566	(0.134)	0.057	0.510
33	2.75	2.00	0.192	(0.134)	0.019	0.173
34	2.83	1.80	0.173	(0.134)	0.017	0.155
35	2.92	1.80	0.173	(0.134)	0.017	0.155
36	3.00	0.60	0.058	(0.134)	0.006	0.052
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.6

Flood volume = Effective rainfall 0.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.0(Ac.Ft)
Total soil loss = 0.08(In)
Total soil loss = 0.447(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 175321.1 Cubic Feet
Total soil loss = 19480.1 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR232

Peak flow rate of this hydrograph = 41.603(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 12.5 25.0 37.5 50.0
0+ 5	0.0108	1.57	VQ
0+10	0.0470	5.26	V Q
0+15	0.0895	6.16	V Q
0+20	0.1349	6.59	V Q
0+25	0.1889	7.84	V Q
0+30	0.2485	8.66	V Q
0+35	0.3131	9.38	V Q
0+40	0.3772	9.30	V Q
0+45	0.4464	10.05	V Q
0+50	0.5148	9.92	V Q
0+55	0.5789	9.31	V Q
1+ 0	0.6452	9.62	VQ
1+ 5	0.7187	10.68	VQ
1+10	0.8012	11.97	V Q
1+15	0.8866	12.40	VQ
1+20	0.9717	12.35	Q
1+25	1.0585	12.61	Q
1+30	1.1573	14.35	Q
1+35	1.2590	14.76	QV
1+40	1.3594	14.58	Q V
1+45	1.4699	16.04	Q V
1+50	1.5920	17.74	QV
1+55	1.7130	17.56	Q V
2+ 0	1.8318	17.25	Q V
2+ 5	1.9527	17.56	Q V
2+10	2.0850	19.22	Q V
2+15	2.2465	23.44	Q V
2+20	2.4181	24.93	Q V
2+25	2.5957	25.78	Q V
2+30	2.8370	35.03	Q
2+35	3.1137	40.18	V Q
2+40	3.4002	41.60	Q
2+45	3.6207	32.01	Q V
2+50	3.7552	19.53	Q V
2+55	3.8591	15.08	Q V
3+ 0	3.9403	11.80	Q V
3+ 5	3.9851	6.50	Q V
3+10	4.0058	3.01	Q V
3+15	4.0161	1.48	Q V
3+20	4.0208	0.68	Q V
3+25	4.0233	0.37	Q V
3+30	4.0245	0.18	Q V
3+35	4.0248	0.04	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR262.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.134)	0.007	0.062
2	0.17	0.60	0.083	(0.134)	0.008	0.075
3	0.25	0.60	0.083	(0.134)	0.008	0.075
4	0.33	0.60	0.083	(0.134)	0.008	0.075
5	0.42	0.60	0.083	(0.134)	0.008	0.075
6	0.50	0.70	0.097	(0.134)	0.010	0.087
7	0.58	0.70	0.097	(0.134)	0.010	0.087
8	0.67	0.70	0.097	(0.134)	0.010	0.087
9	0.75	0.70	0.097	(0.134)	0.010	0.087
10	0.83	0.70	0.097	(0.134)	0.010	0.087
11	0.92	0.70	0.097	(0.134)	0.010	0.087
12	1.00	0.80	0.110	(0.134)	0.011	0.099
13	1.08	0.80	0.110	(0.134)	0.011	0.099
14	1.17	0.80	0.110	(0.134)	0.011	0.099
15	1.25	0.80	0.110	(0.134)	0.011	0.099
16	1.33	0.80	0.110	(0.134)	0.011	0.099
17	1.42	0.80	0.110	(0.134)	0.011	0.099
18	1.50	0.80	0.110	(0.134)	0.011	0.099
19	1.58	0.80	0.110	(0.134)	0.011	0.099
20	1.67	0.80	0.110	(0.134)	0.011	0.099
21	1.75	0.80	0.110	(0.134)	0.011	0.099
22	1.83	0.80	0.110	(0.134)	0.011	0.099
23	1.92	0.80	0.110	(0.134)	0.011	0.099
24	2.00	0.90	0.124	(0.134)	0.012	0.112
25	2.08	0.80	0.110	(0.134)	0.011	0.099
26	2.17	0.90	0.124	(0.134)	0.012	0.112
27	2.25	0.90	0.124	(0.134)	0.012	0.112
28	2.33	0.90	0.124	(0.134)	0.012	0.112
29	2.42	0.90	0.124	(0.134)	0.012	0.112
30	2.50	0.90	0.124	(0.134)	0.012	0.112
31	2.58	0.90	0.124	(0.134)	0.012	0.112
32	2.67	0.90	0.124	(0.134)	0.012	0.112
33	2.75	1.00	0.138	(0.134)	0.014	0.124
34	2.83	1.00	0.138	(0.134)	0.014	0.124
35	2.92	1.00	0.138	(0.134)	0.014	0.124
36	3.00	1.00	0.138	(0.134)	0.014	0.124
37	3.08	1.00	0.138	(0.134)	0.014	0.124
38	3.17	1.10	0.152	(0.134)	0.015	0.137
39	3.25	1.10	0.152	(0.134)	0.015	0.137
40	3.33	1.10	0.152	(0.134)	0.015	0.137
41	3.42	1.20	0.166	(0.134)	0.017	0.149
42	3.50	1.30	0.179	(0.134)	0.018	0.161
43	3.58	1.40	0.193	(0.134)	0.019	0.174
44	3.67	1.40	0.193	(0.134)	0.019	0.174
45	3.75	1.50	0.207	(0.134)	0.021	0.186
46	3.83	1.50	0.207	(0.134)	0.021	0.186

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.221	(0.134)	0.022	0.199
48	4.00	1.60	0.221	(0.134)	0.022	0.199
49	4.08	1.70	0.235	(0.134)	0.023	0.211
50	4.17	1.80	0.248	(0.134)	0.025	0.224
51	4.25	1.90	0.262	(0.134)	0.026	0.236
52	4.33	2.00	0.276	(0.134)	0.028	0.248
53	4.42	2.10	0.290	(0.134)	0.029	0.261
54	4.50	2.10	0.290	(0.134)	0.029	0.261
55	4.58	2.20	0.304	(0.134)	0.030	0.273
56	4.67	2.30	0.317	(0.134)	0.032	0.286
57	4.75	2.40	0.331	(0.134)	0.033	0.298
58	4.83	2.40	0.331	(0.134)	0.033	0.298
59	4.92	2.50	0.345	(0.134)	0.034	0.310
60	5.00	2.60	0.359	(0.134)	0.036	0.323
61	5.08	3.10	0.428	(0.134)	0.043	0.385
62	5.17	3.60	0.497	(0.134)	0.050	0.447
63	5.25	3.90	0.538	(0.134)	0.054	0.484
64	5.33	4.20	0.579	(0.134)	0.058	0.522
65	5.42	4.70	0.648	(0.134)	0.065	0.584
66	5.50	5.60	0.773	(0.134)	0.077	0.695
67	5.58	1.90	0.262	(0.134)	0.026	0.236
68	5.67	0.90	0.124	(0.134)	0.012	0.112
69	5.75	0.60	0.083	(0.134)	0.008	0.075
70	5.83	0.50	0.069	(0.134)	0.007	0.062
71	5.92	0.30	0.041	(0.134)	0.004	0.037
72	6.00	0.20	0.028	(0.134)	0.003	0.025

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.4

Flood volume = Effective rainfall 1.03(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.8(Ac.Ft)
Total soil loss = 0.11(In)
Total soil loss = 0.643(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 252039.9 Cubic Feet
Total soil loss = 28004.4 Cubic Feet

Peak flow rate of this hydrograph = 38.797(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0060	0.87	Q				
0+10	0.0272	3.08	V Q				
0+15	0.0556	4.12	V Q				
0+20	0.0868	4.53	V Q				
0+25	0.1195	4.75	V Q				
0+30	0.1544	5.06	V Q				
0+35	0.1926	5.55	V Q				
0+40	0.2321	5.74	V Q				
0+45	0.2721	5.81	V Q				
0+50	0.3123	5.84	V Q				
0+55	0.3527	5.86	V Q				
1+ 0	0.3943	6.04	V Q				
1+ 5	0.4388	6.46	V Q				
1+10	0.4842	6.59	V Q				
1+15	0.5300	6.65	V Q				
1+20	0.5759	6.68	V Q				
1+25	0.6221	6.70	V Q				
1+30	0.6683	6.71	V Q				
1+35	0.7146	6.72	V Q				
1+40	0.7609	6.72	VQ				
1+45	0.8072	6.72	VQ				
1+50	0.8535	6.72	VQ				
1+55	0.8997	6.72	Q				
2+ 0	0.9472	6.89	Q				
2+ 5	0.9963	7.13	VQ				
2+10	1.0447	7.02	Q				
2+15	1.0954	7.36	Q				
2+20	1.1468	7.46	Q				
2+25	1.1985	7.51	QV				
2+30	1.2503	7.53	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR262

2+35	1.3023	7.55	Q V
2+40	1.3543	7.55	Q V
2+45	1.4076	7.73	Q V
2+50	1.4637	8.14	Q V
2+55	1.5206	8.27	Q V
3+ 0	1.5780	8.33	Q V
3+ 5	1.6355	8.36	Q V
3+10	1.6944	8.55	Q V
3+15	1.7562	8.97	Q V
3+20	1.8190	9.11	Q V
3+25	1.8833	9.34	Q V
3+30	1.9518	9.95	Q V
3+35	2.0254	10.68	Q V
3+40	2.1031	11.29	Q V
3+45	2.1836	11.69	Q V
3+50	2.2677	12.20	Q V
3+55	2.3542	12.57	Q V
4+ 0	2.4443	13.08	Q V
4+ 5	2.5368	13.43	Q V
4+10	2.6339	14.10	Q V
4+15	2.7362	14.85	Q V
4+20	2.8439	15.65	Q V
4+25	2.9573	16.46	Q V
4+30	3.0751	17.11	Q V
4+35	3.1959	17.53	Q V
4+40	3.3216	18.25	Q V
4+45	3.4526	19.03	Q V
4+50	3.5881	19.67	Q V
4+55	3.7263	20.08	Q V
5+ 0	3.8694	20.78	Q V
5+ 5	4.0226	22.24	Q V
5+10	4.1974	25.38	Q V
5+15	4.3950	28.69	Q V
5+20	4.6113	31.41	Q
5+25	4.8479	34.36	VQ
5+30	5.1151	38.80	V Q
5+35	5.3709	37.14	Q
5+40	5.5222	21.97	Q V
5+45	5.6154	13.53	Q V
5+50	5.6787	9.20	Q V
5+55	5.7241	6.59	Q V
6+ 0	5.7544	4.39	Q V
6+ 5	5.7727	2.66	Q V
6+10	5.7796	1.01	Q V
6+15	5.7829	0.48	Q V
6+20	5.7846	0.25	Q V
6+25	5.7855	0.13	Q V
6+30	5.7859	0.06	Q V
6+35	5.7860	0.02	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR2242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.238)	0.001	0.013
2	0.17	0.07	0.014	(0.237)	0.001	0.013
3	0.25	0.07	0.014	(0.236)	0.001	0.013
4	0.33	0.10	0.021	(0.235)	0.002	0.019
5	0.42	0.10	0.021	(0.234)	0.002	0.019
6	0.50	0.10	0.021	(0.233)	0.002	0.019
7	0.58	0.10	0.021	(0.232)	0.002	0.019
8	0.67	0.10	0.021	(0.231)	0.002	0.019
9	0.75	0.10	0.021	(0.230)	0.002	0.019
10	0.83	0.13	0.028	(0.230)	0.003	0.025
11	0.92	0.13	0.028	(0.229)	0.003	0.025
12	1.00	0.13	0.028	(0.228)	0.003	0.025
13	1.08	0.10	0.021	(0.227)	0.002	0.019
14	1.17	0.10	0.021	(0.226)	0.002	0.019
15	1.25	0.10	0.021	(0.225)	0.002	0.019
16	1.33	0.10	0.021	(0.224)	0.002	0.019
17	1.42	0.10	0.021	(0.223)	0.002	0.019
18	1.50	0.10	0.021	(0.222)	0.002	0.019
19	1.58	0.10	0.021	(0.222)	0.002	0.019
20	1.67	0.10	0.021	(0.221)	0.002	0.019
21	1.75	0.10	0.021	(0.220)	0.002	0.019
22	1.83	0.13	0.028	(0.219)	0.003	0.025
23	1.92	0.13	0.028	(0.218)	0.003	0.025
24	2.00	0.13	0.028	(0.217)	0.003	0.025
25	2.08	0.13	0.028	(0.216)	0.003	0.025
26	2.17	0.13	0.028	(0.215)	0.003	0.025
27	2.25	0.13	0.028	(0.214)	0.003	0.025
28	2.33	0.13	0.028	(0.214)	0.003	0.025
29	2.42	0.13	0.028	(0.213)	0.003	0.025
30	2.50	0.13	0.028	(0.212)	0.003	0.025
31	2.58	0.17	0.035	(0.211)	0.003	0.031
32	2.67	0.17	0.035	(0.210)	0.003	0.031
33	2.75	0.17	0.035	(0.209)	0.003	0.031
34	2.83	0.17	0.035	(0.208)	0.003	0.031
35	2.92	0.17	0.035	(0.208)	0.003	0.031
36	3.00	0.17	0.035	(0.207)	0.003	0.031
37	3.08	0.17	0.035	(0.206)	0.003	0.031
38	3.17	0.17	0.035	(0.205)	0.003	0.031
39	3.25	0.17	0.035	(0.204)	0.003	0.031
40	3.33	0.17	0.035	(0.203)	0.003	0.031
41	3.42	0.17	0.035	(0.202)	0.003	0.031
42	3.50	0.17	0.035	(0.202)	0.003	0.031
43	3.58	0.17	0.035	(0.201)	0.003	0.031
44	3.67	0.17	0.035	(0.200)	0.003	0.031
45	3.75	0.17	0.035	(0.199)	0.003	0.031
46	3.83	0.20	0.042	(0.198)	0.004	0.038

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.042	(0.197)	0.004	0.038
48	4.00	0.20	0.042	(0.197)	0.004	0.038
49	4.08	0.20	0.042	(0.196)	0.004	0.038
50	4.17	0.20	0.042	(0.195)	0.004	0.038
51	4.25	0.20	0.042	(0.194)	0.004	0.038
52	4.33	0.23	0.049	(0.193)	0.005	0.044
53	4.42	0.23	0.049	(0.192)	0.005	0.044
54	4.50	0.23	0.049	(0.192)	0.005	0.044
55	4.58	0.23	0.049	(0.191)	0.005	0.044
56	4.67	0.23	0.049	(0.190)	0.005	0.044
57	4.75	0.23	0.049	(0.189)	0.005	0.044
58	4.83	0.27	0.056	(0.188)	0.006	0.050
59	4.92	0.27	0.056	(0.187)	0.006	0.050
60	5.00	0.27	0.056	(0.187)	0.006	0.050
61	5.08	0.20	0.042	(0.186)	0.004	0.038
62	5.17	0.20	0.042	(0.185)	0.004	0.038
63	5.25	0.20	0.042	(0.184)	0.004	0.038
64	5.33	0.23	0.049	(0.183)	0.005	0.044
65	5.42	0.23	0.049	(0.183)	0.005	0.044
66	5.50	0.23	0.049	(0.182)	0.005	0.044
67	5.58	0.27	0.056	(0.181)	0.006	0.050
68	5.67	0.27	0.056	(0.180)	0.006	0.050
69	5.75	0.27	0.056	(0.179)	0.006	0.050
70	5.83	0.27	0.056	(0.179)	0.006	0.050
71	5.92	0.27	0.056	(0.178)	0.006	0.050
72	6.00	0.27	0.056	(0.177)	0.006	0.050
73	6.08	0.30	0.063	(0.176)	0.006	0.057
74	6.17	0.30	0.063	(0.175)	0.006	0.057
75	6.25	0.30	0.063	(0.175)	0.006	0.057
76	6.33	0.30	0.063	(0.174)	0.006	0.057
77	6.42	0.30	0.063	(0.173)	0.006	0.057
78	6.50	0.30	0.063	(0.172)	0.006	0.057
79	6.58	0.33	0.070	(0.172)	0.007	0.063
80	6.67	0.33	0.070	(0.171)	0.007	0.063
81	6.75	0.33	0.070	(0.170)	0.007	0.063
82	6.83	0.33	0.070	(0.169)	0.007	0.063
83	6.92	0.33	0.070	(0.169)	0.007	0.063
84	7.00	0.33	0.070	(0.168)	0.007	0.063
85	7.08	0.33	0.070	(0.167)	0.007	0.063
86	7.17	0.33	0.070	(0.166)	0.007	0.063
87	7.25	0.33	0.070	(0.165)	0.007	0.063
88	7.33	0.37	0.077	(0.165)	0.008	0.069
89	7.42	0.37	0.077	(0.164)	0.008	0.069
90	7.50	0.37	0.077	(0.163)	0.008	0.069
91	7.58	0.40	0.084	(0.162)	0.008	0.076
92	7.67	0.40	0.084	(0.162)	0.008	0.076
93	7.75	0.40	0.084	(0.161)	0.008	0.076
94	7.83	0.43	0.091	(0.160)	0.009	0.082
95	7.92	0.43	0.091	(0.159)	0.009	0.082
96	8.00	0.43	0.091	(0.159)	0.009	0.082
97	8.08	0.50	0.105	(0.158)	0.010	0.094
98	8.17	0.50	0.105	(0.157)	0.010	0.094
99	8.25	0.50	0.105	(0.157)	0.010	0.094
100	8.33	0.50	0.105	(0.156)	0.010	0.094
101	8.42	0.50	0.105	(0.155)	0.010	0.094
102	8.50	0.50	0.105	(0.154)	0.010	0.094
103	8.58	0.53	0.112	(0.154)	0.011	0.101
104	8.67	0.53	0.112	(0.153)	0.011	0.101
105	8.75	0.53	0.112	(0.152)	0.011	0.101
106	8.83	0.57	0.119	(0.151)	0.012	0.107
107	8.92	0.57	0.119	(0.151)	0.012	0.107
108	9.00	0.57	0.119	(0.150)	0.012	0.107
109	9.08	0.63	0.133	(0.149)	0.013	0.120
110	9.17	0.63	0.133	(0.149)	0.013	0.120
111	9.25	0.63	0.133	(0.148)	0.013	0.120
112	9.33	0.67	0.140	(0.147)	0.014	0.126
113	9.42	0.67	0.140	(0.147)	0.014	0.126
114	9.50	0.67	0.140	(0.146)	0.014	0.126
115	9.58	0.70	0.147	(0.145)	0.015	0.132
116	9.67	0.70	0.147	(0.144)	0.015	0.132
117	9.75	0.70	0.147	(0.144)	0.015	0.132
118	9.83	0.73	0.154	(0.143)	0.015	0.139
119	9.92	0.73	0.154	(0.142)	0.015	0.139
120	10.00	0.73	0.154	(0.142)	0.015	0.139
121	10.08	0.50	0.105	(0.141)	0.010	0.094
122	10.17	0.50	0.105	(0.140)	0.010	0.094
123	10.25	0.50	0.105	(0.140)	0.010	0.094

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.105	(0.139)	0.010	0.094
125	10.42	0.50	0.105	(0.138)	0.010	0.094
126	10.50	0.50	0.105	(0.138)	0.010	0.094
127	10.58	0.67	0.140	(0.137)	0.014	0.126
128	10.67	0.67	0.140	(0.136)	0.014	0.126
129	10.75	0.67	0.140	(0.136)	0.014	0.126
130	10.83	0.67	0.140	(0.135)	0.014	0.126
131	10.92	0.67	0.140	(0.134)	0.014	0.126
132	11.00	0.67	0.140	(0.134)	0.014	0.126
133	11.08	0.63	0.133	(0.133)	0.013	0.120
134	11.17	0.63	0.133	(0.132)	0.013	0.120
135	11.25	0.63	0.133	(0.132)	0.013	0.120
136	11.33	0.63	0.133	(0.131)	0.013	0.120
137	11.42	0.63	0.133	(0.130)	0.013	0.120
138	11.50	0.63	0.133	(0.130)	0.013	0.120
139	11.58	0.57	0.119	(0.129)	0.012	0.107
140	11.67	0.57	0.119	(0.128)	0.012	0.107
141	11.75	0.57	0.119	(0.128)	0.012	0.107
142	11.83	0.60	0.126	(0.127)	0.013	0.113
143	11.92	0.60	0.126	(0.126)	0.013	0.113
144	12.00	0.60	0.126	(0.126)	0.013	0.113
145	12.08	0.83	0.175	(0.125)	0.017	0.157
146	12.17	0.83	0.175	(0.125)	0.017	0.157
147	12.25	0.83	0.175	(0.124)	0.017	0.157
148	12.33	0.87	0.182	(0.123)	0.018	0.164
149	12.42	0.87	0.182	(0.123)	0.018	0.164
150	12.50	0.87	0.182	(0.122)	0.018	0.164
151	12.58	0.93	0.196	(0.121)	0.020	0.176
152	12.67	0.93	0.196	(0.121)	0.020	0.176
153	12.75	0.93	0.196	(0.120)	0.020	0.176
154	12.83	0.97	0.203	(0.120)	0.020	0.183
155	12.92	0.97	0.203	(0.119)	0.020	0.183
156	13.00	0.97	0.203	(0.118)	0.020	0.183
157	13.08	1.13	0.238	(0.118)	0.024	0.214
158	13.17	1.13	0.238	(0.117)	0.024	0.214
159	13.25	1.13	0.238	(0.117)	0.024	0.214
160	13.33	1.13	0.238	(0.116)	0.024	0.214
161	13.42	1.13	0.238	(0.115)	0.024	0.214
162	13.50	1.13	0.238	(0.115)	0.024	0.214
163	13.58	0.77	0.161	(0.114)	0.016	0.145
164	13.67	0.77	0.161	(0.114)	0.016	0.145
165	13.75	0.77	0.161	(0.113)	0.016	0.145
166	13.83	0.77	0.161	(0.113)	0.016	0.145
167	13.92	0.77	0.161	(0.112)	0.016	0.145
168	14.00	0.77	0.161	(0.111)	0.016	0.145
169	14.08	0.90	0.189	(0.111)	0.019	0.170
170	14.17	0.90	0.189	(0.110)	0.019	0.170
171	14.25	0.90	0.189	(0.110)	0.019	0.170
172	14.33	0.87	0.182	(0.109)	0.018	0.164
173	14.42	0.87	0.182	(0.109)	0.018	0.164
174	14.50	0.87	0.182	(0.108)	0.018	0.164
175	14.58	0.87	0.182	(0.107)	0.018	0.164
176	14.67	0.87	0.182	(0.107)	0.018	0.164
177	14.75	0.87	0.182	(0.106)	0.018	0.164
178	14.83	0.83	0.175	(0.106)	0.017	0.157
179	14.92	0.83	0.175	(0.105)	0.017	0.157
180	15.00	0.83	0.175	(0.105)	0.017	0.157
181	15.08	0.80	0.168	(0.104)	0.017	0.151
182	15.17	0.80	0.168	(0.104)	0.017	0.151
183	15.25	0.80	0.168	(0.103)	0.017	0.151
184	15.33	0.77	0.161	(0.103)	0.016	0.145
185	15.42	0.77	0.161	(0.102)	0.016	0.145
186	15.50	0.77	0.161	(0.102)	0.016	0.145
187	15.58	0.63	0.133	(0.101)	0.013	0.120
188	15.67	0.63	0.133	(0.101)	0.013	0.120
189	15.75	0.63	0.133	(0.100)	0.013	0.120
190	15.83	0.63	0.133	(0.100)	0.013	0.120
191	15.92	0.63	0.133	(0.099)	0.013	0.120
192	16.00	0.63	0.133	(0.099)	0.013	0.120
193	16.08	0.13	0.028	(0.098)	0.003	0.025
194	16.17	0.13	0.028	(0.098)	0.003	0.025
195	16.25	0.13	0.028	(0.097)	0.003	0.025
196	16.33	0.13	0.028	(0.097)	0.003	0.025
197	16.42	0.13	0.028	(0.096)	0.003	0.025
198	16.50	0.13	0.028	(0.096)	0.003	0.025
199	16.58	0.10	0.021	(0.095)	0.002	0.019
200	16.67	0.10	0.021	(0.095)	0.002	0.019

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.021	(0.094)	0.002	0.019
202	16.83	0.10	0.021	(0.094)	0.002	0.019
203	16.92	0.10	0.021	(0.093)	0.002	0.019
204	17.00	0.10	0.021	(0.093)	0.002	0.019
205	17.08	0.17	0.035	(0.092)	0.003	0.031
206	17.17	0.17	0.035	(0.092)	0.003	0.031
207	17.25	0.17	0.035	(0.091)	0.003	0.031
208	17.33	0.17	0.035	(0.091)	0.003	0.031
209	17.42	0.17	0.035	(0.090)	0.003	0.031
210	17.50	0.17	0.035	(0.090)	0.003	0.031
211	17.58	0.17	0.035	(0.089)	0.003	0.031
212	17.67	0.17	0.035	(0.089)	0.003	0.031
213	17.75	0.17	0.035	(0.089)	0.003	0.031
214	17.83	0.13	0.028	(0.088)	0.003	0.025
215	17.92	0.13	0.028	(0.088)	0.003	0.025
216	18.00	0.13	0.028	(0.087)	0.003	0.025
217	18.08	0.13	0.028	(0.087)	0.003	0.025
218	18.17	0.13	0.028	(0.086)	0.003	0.025
219	18.25	0.13	0.028	(0.086)	0.003	0.025
220	18.33	0.13	0.028	(0.086)	0.003	0.025
221	18.42	0.13	0.028	(0.085)	0.003	0.025
222	18.50	0.13	0.028	(0.085)	0.003	0.025
223	18.58	0.10	0.021	(0.084)	0.002	0.019
224	18.67	0.10	0.021	(0.084)	0.002	0.019
225	18.75	0.10	0.021	(0.084)	0.002	0.019
226	18.83	0.07	0.014	(0.083)	0.001	0.013
227	18.92	0.07	0.014	(0.083)	0.001	0.013
228	19.00	0.07	0.014	(0.082)	0.001	0.013
229	19.08	0.10	0.021	(0.082)	0.002	0.019
230	19.17	0.10	0.021	(0.082)	0.002	0.019
231	19.25	0.10	0.021	(0.081)	0.002	0.019
232	19.33	0.13	0.028	(0.081)	0.003	0.025
233	19.42	0.13	0.028	(0.080)	0.003	0.025
234	19.50	0.13	0.028	(0.080)	0.003	0.025
235	19.58	0.10	0.021	(0.080)	0.002	0.019
236	19.67	0.10	0.021	(0.079)	0.002	0.019
237	19.75	0.10	0.021	(0.079)	0.002	0.019
238	19.83	0.07	0.014	(0.079)	0.001	0.013
239	19.92	0.07	0.014	(0.078)	0.001	0.013
240	20.00	0.07	0.014	(0.078)	0.001	0.013
241	20.08	0.10	0.021	(0.078)	0.002	0.019
242	20.17	0.10	0.021	(0.077)	0.002	0.019
243	20.25	0.10	0.021	(0.077)	0.002	0.019
244	20.33	0.10	0.021	(0.077)	0.002	0.019
245	20.42	0.10	0.021	(0.076)	0.002	0.019
246	20.50	0.10	0.021	(0.076)	0.002	0.019
247	20.58	0.10	0.021	(0.076)	0.002	0.019
248	20.67	0.10	0.021	(0.075)	0.002	0.019
249	20.75	0.10	0.021	(0.075)	0.002	0.019
250	20.83	0.07	0.014	(0.075)	0.001	0.013
251	20.92	0.07	0.014	(0.074)	0.001	0.013
252	21.00	0.07	0.014	(0.074)	0.001	0.013
253	21.08	0.10	0.021	(0.074)	0.002	0.019
254	21.17	0.10	0.021	(0.073)	0.002	0.019
255	21.25	0.10	0.021	(0.073)	0.002	0.019
256	21.33	0.07	0.014	(0.073)	0.001	0.013
257	21.42	0.07	0.014	(0.073)	0.001	0.013
258	21.50	0.07	0.014	(0.072)	0.001	0.013
259	21.58	0.10	0.021	(0.072)	0.002	0.019
260	21.67	0.10	0.021	(0.072)	0.002	0.019
261	21.75	0.10	0.021	(0.072)	0.002	0.019
262	21.83	0.07	0.014	(0.071)	0.001	0.013
263	21.92	0.07	0.014	(0.071)	0.001	0.013
264	22.00	0.07	0.014	(0.071)	0.001	0.013
265	22.08	0.10	0.021	(0.071)	0.002	0.019
266	22.17	0.10	0.021	(0.070)	0.002	0.019
267	22.25	0.10	0.021	(0.070)	0.002	0.019
268	22.33	0.07	0.014	(0.070)	0.001	0.013
269	22.42	0.07	0.014	(0.070)	0.001	0.013
270	22.50	0.07	0.014	(0.069)	0.001	0.013
271	22.58	0.07	0.014	(0.069)	0.001	0.013
272	22.67	0.07	0.014	(0.069)	0.001	0.013
273	22.75	0.07	0.014	(0.069)	0.001	0.013
274	22.83	0.07	0.014	(0.069)	0.001	0.013
275	22.92	0.07	0.014	(0.069)	0.001	0.013
276	23.00	0.07	0.014	(0.068)	0.001	0.013
277	23.08	0.07	0.014	(0.068)	0.001	0.013

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.014	(	0.068)	0.001	0.013
279	23.25	0.07	0.014	(	0.068)	0.001	0.013
280	23.33	0.07	0.014	(	0.068)	0.001	0.013
281	23.42	0.07	0.014	(	0.068)	0.001	0.013
282	23.50	0.07	0.014	(	0.068)	0.001	0.013
283	23.58	0.07	0.014	(	0.067)	0.001	0.013
284	23.67	0.07	0.014	(	0.067)	0.001	0.013
285	23.75	0.07	0.014	(	0.067)	0.001	0.013
286	23.83	0.07	0.014	(	0.067)	0.001	0.013
287	23.92	0.07	0.014	(	0.067)	0.001	0.013
288	24.00	0.07	0.014	(	0.067)	0.001	0.013

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.9

Flood volume = Effective rainfall 1.57(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.8(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.978(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 383577.2 Cubic Feet
Total soil loss = 42619.7 Cubic Feet

Peak flow rate of this hydrograph = 14.434(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0012	0.18	Q				
0+10	0.0053	0.59	VQ				
0+15	0.0102	0.72	VQ				
0+20	0.0162	0.86	VQ				
0+25	0.0238	1.10	V Q				
0+30	0.0320	1.19	V Q				
0+35	0.0404	1.23	V Q				
0+40	0.0491	1.26	V Q				
0+45	0.0578	1.27	V Q				
0+50	0.0672	1.36	V Q				
0+55	0.0780	1.57	V Q				
1+ 0	0.0893	1.64	V Q				
1+ 5	0.1002	1.58	V Q				
1+10	0.1098	1.39	V Q				
1+15	0.1189	1.33	V Q				
1+20	0.1280	1.31	V Q				
1+25	0.1369	1.30	V Q				
1+30	0.1458	1.29	V Q				
1+35	0.1547	1.28	V Q				
1+40	0.1635	1.28	V Q				
1+45	0.1723	1.28	V Q				
1+50	0.1817	1.37	V Q				
1+55	0.1925	1.57	V Q				
2+ 0	0.2038	1.64	V Q				
2+ 5	0.2153	1.67	V Q				
2+10	0.2269	1.68	|V Q				
2+15	0.2385	1.69	|V Q				
2+20	0.2502	1.70	|V Q				
2+25	0.2620	1.70	|V Q				
2+30	0.2737	1.70	|V Q				
2+35	0.2861	1.79	|V Q				
2+40	0.2998	2.00	|V Q				
2+45	0.3140	2.06	|V Q				
2+50	0.3285	2.09	|V Q				
2+55	0.3430	2.11	|V Q				
3+ 0	0.3576	2.12	|V Q				
3+ 5	0.3722	2.13	|V Q				
3+10	0.3869	2.13	|V Q				
3+15	0.4016	2.13	|V Q				
3+20	0.4163	2.13	|V Q				
3+25	0.4309	2.13	|V Q				
3+30	0.4456	2.13	| V Q				
3+35	0.4603	2.13	| V Q				
3+40	0.4750	2.13	| V Q				
3+45	0.4896	2.13	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	0.5049	2.22	V Q				
3+55	0.5216	2.43	V Q				
4+ 0	0.5388	2.49	V Q				
4+ 5	0.5561	2.52	V Q				
4+10	0.5736	2.54	V Q				
4+15	0.5911	2.55	V Q				
4+20	0.6093	2.64	V Q				
4+25	0.6290	2.85	V Q				
4+30	0.6490	2.92	V Q				
4+35	0.6693	2.95	V Q				
4+40	0.6897	2.96	V Q				
4+45	0.7102	2.97	V Q				
4+50	0.7313	3.07	V Q				
4+55	0.7539	3.28	V Q				
5+ 0	0.7769	3.34	V Q				
5+ 5	0.7989	3.20	V Q				
5+10	0.8182	2.80	V Q				
5+15	0.8366	2.68	V Q				
5+20	0.8553	2.72	V Q				
5+25	0.8753	2.90	V Q				
5+30	0.8955	2.94	VQ				
5+35	0.9165	3.04	V Q				
5+40	0.9389	3.26	V Q				
5+45	0.9619	3.33	V Q				
5+50	0.9850	3.37	V Q				
5+55	1.0084	3.39	V Q				
6+ 0	1.0318	3.40	V Q				
6+ 5	1.0558	3.49	V Q				
6+10	1.0813	3.70	V Q				
6+15	1.1073	3.77	V Q				
6+20	1.1335	3.80	V Q				
6+25	1.1597	3.81	V Q				
6+30	1.1861	3.82	V Q				
6+35	1.2130	3.92	V Q				
6+40	1.2415	4.13	V Q				
6+45	1.2704	4.19	V Q				
6+50	1.2995	4.22	V Q				
6+55	1.3287	4.24	V Q				
7+ 0	1.3580	4.25	V Q				
7+ 5	1.3873	4.26	V Q				
7+10	1.4166	4.26	V Q				
7+15	1.4460	4.26	V Q				
7+20	1.4759	4.35	V Q				
7+25	1.5073	4.56	V Q				
7+30	1.5392	4.62	V Q				
7+35	1.5718	4.74	V Q				
7+40	1.6060	4.96	V Q				
7+45	1.6406	5.04	V Q				
7+50	1.6762	5.16	V Q				
7+55	1.7133	5.39	V Q				
8+ 0	1.7509	5.46	V Q				
8+ 5	1.7900	5.67	V Q				
8+10	1.8320	6.11	V Q				
8+15	1.8751	6.25	V Q				
8+20	1.9185	6.31	V Q				
8+25	1.9623	6.35	V Q				
8+30	2.0061	6.37	V Q				
8+35	2.0507	6.47	V Q				
8+40	2.0968	6.69	V Q				
8+45	2.1433	6.75	V Q				
8+50	2.1906	6.87	V Q				
8+55	2.2394	7.09	V Q				
9+ 0	2.2888	7.17	V Q				
9+ 5	2.3396	7.38	V Q				
9+10	2.3934	7.81	V Q				
9+15	2.4482	7.95	V Q				
9+20	2.5040	8.10	V Q				
9+25	2.5615	8.35	V Q				
9+30	2.6196	8.43	V Q				
9+35	2.6786	8.56	V Q				
9+40	2.7391	8.80	V Q				
9+45	2.8002	8.87	V Q				
9+50	2.8622	8.99	V Q				
9+55	2.9257	9.22	V Q				
10+ 0	2.9898	9.30	V Q				
10+ 5	3.0498	8.72	V Q				
10+10	3.1000	7.29	Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

10+15	3.1472	6.85	|	QV	|	|	|
10+20	3.1930	6.65	|	QV	|	|	|
10+25	3.2381	6.55	|	QV	|	|	|
10+30	3.2826	6.47	|	Q V	|	|	|
10+35	3.3299	6.87	|	Q V	|	|	|
10+40	3.3841	7.87	|	Q	|	|	|
10+45	3.4405	8.19	|	VQ	|	|	|
10+50	3.4979	8.33	|	VQ	|	|	|
10+55	3.5559	8.42	|	Q	|	|	|
11+ 0	3.6142	8.47	|	Q	|	|	|
11+ 5	3.6721	8.41	|	Q	|	|	|
11+10	3.7288	8.23	|	Q	|	|	|
11+15	3.7850	8.16	|	QV	|	|	|
11+20	3.8411	8.14	|	QV	|	|	|
11+25	3.8970	8.12	|	QV	|	|	|
11+30	3.9528	8.11	|	QV	|	|	|
11+35	4.0074	7.93	|	Q V	|	|	|
11+40	4.0591	7.51	|	Q V	|	|	|
11+45	4.1099	7.38	|	Q V	|	|	|
11+50	4.1610	7.41	|	Q V	|	|	|
11+55	4.2132	7.58	|	Q V	|	|	|
12+ 0	4.2657	7.63	|	Q V	|	|	|
12+ 5	4.3226	8.26	|	Q V	|	|	|
12+10	4.3895	9.72	|	Q	|	|	|
12+15	4.4596	10.17	|	Q	|	|	|
12+20	4.5317	10.47	|	Q	|	|	|
12+25	4.6061	10.80	|	VQ	|	|	|
12+30	4.6814	10.93	|	|Q	|	|	|
12+35	4.7584	11.18	|	|VQ	|	|	|
12+40	4.8387	11.65	|	|V Q	|	|	|
12+45	4.9198	11.79	|	| VQ	|	|	|
12+50	5.0021	11.94	|	| VQ	|	|	|
12+55	5.0860	12.19	|	| VQ	|	|	|
13+ 0	5.1705	12.27	|	| VQ	|	|	|
13+ 5	5.2583	12.75	|	| V Q	|	|	|
13+10	5.3535	13.81	|	| V Q	|	|	|
13+15	5.4509	14.14	|	| V Q	|	|	|
13+20	5.5493	14.30	|	| V Q	|	|	|
13+25	5.6484	14.38	|	| V Q	|	|	|
13+30	5.7478	14.43	|	| V Q	|	|	|
13+35	5.8407	13.50	|	| Q	|	|	|
13+40	5.9182	11.24	|	| Q V	|	|	|
13+45	5.9908	10.54	|	|Q V	|	|	|
13+50	6.0611	10.22	|	Q V	|	|	|
13+55	6.1303	10.04	|	Q V	|	|	|
14+ 0	6.1987	9.93	|	Q| V	|	|	|
14+ 5	6.2690	10.21	|	Q V	|	|	|
14+10	6.3446	10.98	|	|Q V	|	|	|
14+15	6.4220	11.24	|	| Q V	|	|	|
14+20	6.4996	11.27	|	| Q V	|	|	|
14+25	6.5763	11.12	|	| Q V	|	|	|
14+30	6.6527	11.10	|	| Q V	|	|	|
14+35	6.7292	11.10	|	| Q V	|	|	|
14+40	6.8056	11.10	|	| Q V	|	|	|
14+45	6.8820	11.09	|	| Q |V	|	|	|
14+50	6.9578	11.00	|	|Q |V	|	|	|
14+55	7.0321	10.79	|	|Q |V	|	|	|
15+ 0	7.1059	10.72	|	|Q | V	|	|	|
15+ 5	7.1789	10.61	|	|Q | V	|	|	|
15+10	7.2504	10.38	|	Q | V	|	|	|
15+15	7.3214	10.31	|	Q | V	|	|	|
15+20	7.3916	10.18	|	Q | V	|	|	|
15+25	7.4601	9.96	|	Q| | V	|	|	|
15+30	7.5282	9.88	|	Q| | V	|	|	|
15+35	7.5936	9.49	|	Q | | V	|	|	|
15+40	7.6531	8.64	|	Q | | V	|	|	|
15+45	7.7108	8.38	|	Q | | V	|	|	|
15+50	7.7676	8.25	|	Q | | V	|	|	|
15+55	7.8240	8.18	|	Q | | V	|	|	|
16+ 0	7.8801	8.14	|	Q | | V	|	|	|
16+ 5	7.9269	6.80	|	Q | | | V	|	|	|
16+10	7.9522	3.67	|	Q | | | V	|	|	|
16+15	7.9708	2.71	|	Q | | | V	|	|	|
16+20	7.9865	2.27	|	Q | | | V	|	|	|
16+25	8.0005	2.03	|	Q | | | V	|	|	|
16+30	8.0134	1.88	|	Q | | | V	|	|	|
16+35	8.0251	1.69	|	Q | | | V	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	8.0348	1.41	Q			V	
16+45	8.0441	1.35	Q			V	
16+50	8.0531	1.32	Q			V	
16+55	8.0621	1.30	Q			V	
17+ 0	8.0710	1.29	Q			V	
17+ 5	8.0810	1.46	Q			V	
17+10	8.0939	1.87	Q			V	
17+15	8.1076	2.00	Q			V	
17+20	8.1218	2.06	Q			V	
17+25	8.1362	2.09	Q			V	
17+30	8.1507	2.11	Q			V	
17+35	8.1653	2.12	Q			V	
17+40	8.1800	2.13	Q			V	
17+45	8.1946	2.13	Q			V	
17+50	8.2087	2.04	Q			V	
17+55	8.2214	1.84	Q			V	
18+ 0	8.2336	1.77	Q			V	
18+ 5	8.2456	1.74	Q			V	
18+10	8.2575	1.73	Q			V	
18+15	8.2693	1.72	Q			V	
18+20	8.2810	1.71	Q			V	
18+25	8.2928	1.70	Q			V	
18+30	8.3045	1.70	Q			V	
18+35	8.3157	1.62	Q			V	
18+40	8.3254	1.41	Q			V	
18+45	8.3346	1.35	Q			V	
18+50	8.3431	1.23	Q			V	
18+55	8.3500	1.01	Q			V	
19+ 0	8.3564	0.93	Q			V	
19+ 5	8.3632	0.98	Q			V	
19+10	8.3713	1.17	Q			V	
19+15	8.3797	1.22	Q			V	
19+20	8.3889	1.33	Q			V	
19+25	8.3996	1.55	Q			V	
19+30	8.4108	1.63	Q			V	
19+35	8.4216	1.57	Q			V	
19+40	8.4312	1.39	Q			V	
19+45	8.4403	1.33	Q			V	
19+50	8.4488	1.22	Q			V	
19+55	8.4557	1.01	Q			V	
20+ 0	8.4621	0.93	Q			V	
20+ 5	8.4689	0.98	Q			V	
20+10	8.4769	1.17	Q			V	
20+15	8.4854	1.22	Q			V	
20+20	8.4939	1.25	Q			V	
20+25	8.5026	1.26	Q			V	
20+30	8.5113	1.27	Q			V	
20+35	8.5201	1.27	Q			V	
20+40	8.5289	1.28	Q			V	
20+45	8.5377	1.28	Q			V	
20+50	8.5459	1.19	Q			V	
20+55	8.5527	0.98	Q			V	
21+ 0	8.5590	0.92	Q			V	
21+ 5	8.5657	0.98	Q			V	
21+10	8.5738	1.17	Q			V	
21+15	8.5822	1.22	Q			V	
21+20	8.5902	1.16	Q			V	
21+25	8.5968	0.96	Q			V	
21+30	8.6031	0.91	Q			V	
21+35	8.6098	0.97	Q			V	
21+40	8.6178	1.17	Q			V	
21+45	8.6262	1.22	Q			V	
21+50	8.6342	1.16	Q			V	
21+55	8.6408	0.96	Q			V	
22+ 0	8.6471	0.91	Q			V	
22+ 5	8.6538	0.97	Q			V	
22+10	8.6619	1.17	Q			V	
22+15	8.6703	1.22	Q			V	
22+20	8.6782	1.16	Q			V	
22+25	8.6849	0.96	Q			V	
22+30	8.6911	0.91	Q			V	
22+35	8.6972	0.89	Q			V	
22+40	8.7032	0.87	Q			V	
22+45	8.7092	0.86	Q			V	
22+50	8.7151	0.86	Q			V	
22+55	8.7210	0.85	Q			V	
23+ 0	8.7268	0.85	Q			V	

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

23+ 5	8.7327	0.85	|Q	|	|	|	V|
23+10	8.7386	0.85	|Q	|	|	|	V|
23+15	8.7444	0.85	|Q	|	|	|	V|
23+20	8.7503	0.85	|Q	|	|	|	V|
23+25	8.7562	0.85	|Q	|	|	|	V|
23+30	8.7621	0.85	|Q	|	|	|	V|
23+35	8.7679	0.85	|Q	|	|	|	V|
23+40	8.7738	0.85	|Q	|	|	|	V|
23+45	8.7797	0.85	|Q	|	|	|	V|
23+50	8.7855	0.85	|Q	|	|	|	V|
23+55	8.7914	0.85	|Q	|	|	|	V|
24+ 0	8.7973	0.85	|Q	|	|	|	V|
24+ 5	8.8019	0.68	|Q	|	|	|	V|
24+10	8.8037	0.26	Q	|	|	|	V|
24+15	8.8047	0.13	Q	|	|	|	V|
24+20	8.8052	0.08	Q	|	|	|	V|
24+25	8.8055	0.04	Q	|	|	|	V|
24+30	8.8056	0.02	Q	|	|	|	V|
24+35	8.8057	0.01	Q	|	|	|	V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR515.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.334	(0.134)	0.033	0.301
2	0.17	4.30	0.342	(0.134)	0.034	0.308
3	0.25	5.00	0.398	(0.134)	0.040	0.358
4	0.33	5.00	0.398	(0.134)	0.040	0.358
5	0.42	5.80	0.462	(0.134)	0.046	0.416
6	0.50	6.50	0.518	(0.134)	0.052	0.466
7	0.58	7.40	0.589	(0.134)	0.059	0.530
8	0.67	8.60	0.685	(0.134)	0.068	0.616
9	0.75	12.30	0.979	(0.134)	0.098	0.881
10	0.83	29.10	2.317	0.134	(0.232)	2.183
11	0.92	6.80	0.541	(0.134)	0.054	0.487
12	1.00	5.00	0.398	(0.134)	0.040	0.358
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	7.3

Flood volume = Effective rainfall 0.61(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 3.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.326(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 147441.8 Cubic Feet
Total soil loss = 14181.9 Cubic Feet

Peak flow rate of this hydrograph = 93.308(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	25.0	50.0	75.0	100.0
0+ 5	0.0289	4.20	VQ				
0+10	0.1268	14.21	V Q				
0+15	0.2521	18.20	V Q				
0+20	0.3989	21.31	V Q				
0+25	0.5602	23.43	V Q				
0+30	0.7445	26.76	V Q				
0+35	0.9534	30.33	VQ				
0+40	1.1928	34.76	QV				
0+45	1.4847	42.38	QV				
0+50	1.9716	70.70	V Q				
0+55	2.6142	93.31	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR515
   1+ 0       2.9620     50.50  |         |         Q         |    V    |
   1+ 5       3.1755     31.00  |         | Q       |         |      V  |
   1+10       3.2719     13.99  |    Q    |         |         |       V |
   1+15       3.3262      7.88  |  Q      |         |         |        V|
   1+20       3.3579      4.61  |Q        |         |         |        V|
   1+25       3.3776      2.86  |Q        |         |         |        V|
   1+30       3.3828      0.75  Q         |         |         |        V|
   1+35       3.3848      0.29  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR535.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.134)	0.016	0.147
2	0.17	1.30	0.163	(0.134)	0.016	0.147
3	0.25	1.10	0.138	(0.134)	0.014	0.124
4	0.33	1.50	0.189	(0.134)	0.019	0.170
5	0.42	1.50	0.189	(0.134)	0.019	0.170
6	0.50	1.80	0.226	(0.134)	0.023	0.204
7	0.58	1.50	0.189	(0.134)	0.019	0.170
8	0.67	1.80	0.226	(0.134)	0.023	0.204
9	0.75	1.80	0.226	(0.134)	0.023	0.204
10	0.83	1.50	0.189	(0.134)	0.019	0.170
11	0.92	1.60	0.201	(0.134)	0.020	0.181
12	1.00	1.80	0.226	(0.134)	0.023	0.204
13	1.08	2.20	0.277	(0.134)	0.028	0.249
14	1.17	2.20	0.277	(0.134)	0.028	0.249
15	1.25	2.20	0.277	(0.134)	0.028	0.249
16	1.33	2.00	0.252	(0.134)	0.025	0.226
17	1.42	2.60	0.327	(0.134)	0.033	0.294
18	1.50	2.70	0.340	(0.134)	0.034	0.306
19	1.58	2.40	0.302	(0.134)	0.030	0.272
20	1.67	2.70	0.340	(0.134)	0.034	0.306
21	1.75	3.30	0.415	(0.134)	0.041	0.373
22	1.83	3.10	0.390	(0.134)	0.039	0.351
23	1.92	2.90	0.365	(0.134)	0.036	0.328
24	2.00	3.00	0.377	(0.134)	0.038	0.340
25	2.08	3.10	0.390	(0.134)	0.039	0.351
26	2.17	4.20	0.528	(0.134)	0.053	0.475
27	2.25	5.00	0.629	(0.134)	0.063	0.566
28	2.33	3.50	0.440	(0.134)	0.044	0.396
29	2.42	6.80	0.855	(0.134)	0.086	0.770
30	2.50	7.30	0.918	(0.134)	0.092	0.826
31	2.58	8.20	1.031	(0.134)	0.103	0.928
32	2.67	5.90	0.742	(0.134)	0.074	0.668
33	2.75	2.00	0.252	(0.134)	0.025	0.226
34	2.83	1.80	0.226	(0.134)	0.023	0.204
35	2.92	1.80	0.226	(0.134)	0.023	0.204
36	3.00	0.60	0.075	(0.134)	0.008	0.068
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	11.3

Flood volume = Effective rainfall 0.94(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.3(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.586(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 229731.5 Cubic Feet
Total soil loss = 25525.7 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR535

Peak flow rate of this hydrograph = 54.514(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 15.0 30.0 45.0 60.0
0+ 5	0.0141	2.05	VQ
0+10	0.0616	6.90	V Q
0+15	0.1172	8.07	V Q
0+20	0.1767	8.64	V Q
0+25	0.2475	10.28	V Q
0+30	0.3257	11.35	V Q
0+35	0.4103	12.29	V Q
0+40	0.4943	12.19	V Q
0+45	0.5850	13.17	V Q
0+50	0.6745	13.00	V Q
0+55	0.7585	12.20	V Q
1+ 0	0.8454	12.61	V Q
1+ 5	0.9418	14.00	V Q
1+10	1.0498	15.69	V Q
1+15	1.1617	16.25	V Q
1+20	1.2732	16.19	VQ
1+25	1.3870	16.53	VQ
1+30	1.5165	18.80	VQ
1+35	1.6497	19.34	Q
1+40	1.7813	19.11	QV
1+45	1.9260	21.02	Q
1+50	2.0861	23.24	Q
1+55	2.2446	23.01	Q V
2+ 0	2.4002	22.60	Q V
2+ 5	2.5587	23.00	Q V
2+10	2.7321	25.18	Q V
2+15	2.9436	30.71	Q V
2+20	3.1686	32.67	Q V
2+25	3.4013	33.78	Q V
2+30	3.7174	45.90	V Q
2+35	4.0800	52.65	V Q
2+40	4.4554	54.51	V Q
2+45	4.7444	41.95	Q V
2+50	4.9206	25.60	Q V
2+55	5.0567	19.76	Q V
3+ 0	5.1632	15.46	Q V
3+ 5	5.2219	8.52	Q V
3+10	5.2490	3.95	Q V
3+15	5.2624	1.94	Q V
3+20	5.2686	0.90	Q V
3+25	5.2719	0.48	Q V
3+30	5.2735	0.23	Q V
3+35	5.2739	0.06	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR565.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.134)	0.009	0.079
2	0.17	0.60	0.106	(0.134)	0.011	0.095
3	0.25	0.60	0.106	(0.134)	0.011	0.095
4	0.33	0.60	0.106	(0.134)	0.011	0.095
5	0.42	0.60	0.106	(0.134)	0.011	0.095
6	0.50	0.70	0.123	(0.134)	0.012	0.111
7	0.58	0.70	0.123	(0.134)	0.012	0.111
8	0.67	0.70	0.123	(0.134)	0.012	0.111
9	0.75	0.70	0.123	(0.134)	0.012	0.111
10	0.83	0.70	0.123	(0.134)	0.012	0.111
11	0.92	0.70	0.123	(0.134)	0.012	0.111
12	1.00	0.80	0.141	(0.134)	0.014	0.127
13	1.08	0.80	0.141	(0.134)	0.014	0.127
14	1.17	0.80	0.141	(0.134)	0.014	0.127
15	1.25	0.80	0.141	(0.134)	0.014	0.127
16	1.33	0.80	0.141	(0.134)	0.014	0.127
17	1.42	0.80	0.141	(0.134)	0.014	0.127
18	1.50	0.80	0.141	(0.134)	0.014	0.127
19	1.58	0.80	0.141	(0.134)	0.014	0.127
20	1.67	0.80	0.141	(0.134)	0.014	0.127
21	1.75	0.80	0.141	(0.134)	0.014	0.127
22	1.83	0.80	0.141	(0.134)	0.014	0.127
23	1.92	0.80	0.141	(0.134)	0.014	0.127
24	2.00	0.90	0.158	(0.134)	0.016	0.142
25	2.08	0.80	0.141	(0.134)	0.014	0.127
26	2.17	0.90	0.158	(0.134)	0.016	0.142
27	2.25	0.90	0.158	(0.134)	0.016	0.142
28	2.33	0.90	0.158	(0.134)	0.016	0.142
29	2.42	0.90	0.158	(0.134)	0.016	0.142
30	2.50	0.90	0.158	(0.134)	0.016	0.142
31	2.58	0.90	0.158	(0.134)	0.016	0.142
32	2.67	0.90	0.158	(0.134)	0.016	0.142
33	2.75	1.00	0.176	(0.134)	0.018	0.158
34	2.83	1.00	0.176	(0.134)	0.018	0.158
35	2.92	1.00	0.176	(0.134)	0.018	0.158
36	3.00	1.00	0.176	(0.134)	0.018	0.158
37	3.08	1.00	0.176	(0.134)	0.018	0.158
38	3.17	1.10	0.193	(0.134)	0.019	0.174
39	3.25	1.10	0.193	(0.134)	0.019	0.174
40	3.33	1.10	0.193	(0.134)	0.019	0.174
41	3.42	1.20	0.211	(0.134)	0.021	0.190
42	3.50	1.30	0.229	(0.134)	0.023	0.206
43	3.58	1.40	0.246	(0.134)	0.025	0.222
44	3.67	1.40	0.246	(0.134)	0.025	0.222
45	3.75	1.50	0.264	(0.134)	0.026	0.237
46	3.83	1.50	0.264	(0.134)	0.026	0.237

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.281	(0.134)	0.028	0.253
48	4.00	1.60	0.281	(0.134)	0.028	0.253
49	4.08	1.70	0.299	(0.134)	0.030	0.269
50	4.17	1.80	0.317	(0.134)	0.032	0.285
51	4.25	1.90	0.334	(0.134)	0.033	0.301
52	4.33	2.00	0.352	(0.134)	0.035	0.317
53	4.42	2.10	0.369	(0.134)	0.037	0.332
54	4.50	2.10	0.369	(0.134)	0.037	0.332
55	4.58	2.20	0.387	(0.134)	0.039	0.348
56	4.67	2.30	0.405	(0.134)	0.040	0.364
57	4.75	2.40	0.422	(0.134)	0.042	0.380
58	4.83	2.40	0.422	(0.134)	0.042	0.380
59	4.92	2.50	0.440	(0.134)	0.044	0.396
60	5.00	2.60	0.457	(0.134)	0.046	0.412
61	5.08	3.10	0.545	(0.134)	0.055	0.491
62	5.17	3.60	0.633	(0.134)	0.063	0.570
63	5.25	3.90	0.686	(0.134)	0.069	0.617
64	5.33	4.20	0.739	(0.134)	0.074	0.665
65	5.42	4.70	0.827	(0.134)	0.083	0.744
66	5.50	5.60	0.985	(0.134)	0.099	0.887
67	5.58	1.90	0.334	(0.134)	0.033	0.301
68	5.67	0.90	0.158	(0.134)	0.016	0.142
69	5.75	0.60	0.106	(0.134)	0.011	0.095
70	5.83	0.50	0.088	(0.134)	0.009	0.079
71	5.92	0.30	0.053	(0.134)	0.005	0.047
72	6.00	0.20	0.035	(0.134)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.8

Flood volume = Effective rainfall 1.32(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 7.4(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.820(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 321340.5 Cubic Feet
Total soil loss = 35704.5 Cubic Feet

Peak flow rate of this hydrograph = 49.464(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0076	1.10	Q	|	|	|	|
0+10	0.0347	3.93	V Q	|	|	|	|
0+15	0.0709	5.26	V Q	|	|	|	|
0+20	0.1107	5.78	V Q	|	|	|	|
0+25	0.1524	6.06	V Q	|	|	|	|
0+30	0.1968	6.45	|V Q	|	|	|	|
0+35	0.2456	7.08	|V Q	|	|	|	|
0+40	0.2960	7.32	|V Q	|	|	|	|
0+45	0.3469	7.40	|V Q	|	|	|	|
0+50	0.3982	7.44	| V Q	|	|	|	|
0+55	0.4496	7.47	| V Q	|	|	|	|
1+ 0	0.5027	7.71	| V Q	|	|	|	|
1+ 5	0.5595	8.24	| V Q	|	|	|	|
1+10	0.6173	8.40	| V Q	|	|	|	|
1+15	0.6757	8.47	| V Q	|	|	|	|
1+20	0.7343	8.51	| V Q	|	|	|	|
1+25	0.7931	8.54	| V Q	|	|	|	|
1+30	0.8521	8.56	| V Q	|	|	|	|
1+35	0.9111	8.57	| V Q	|	|	|	|
1+40	0.9701	8.57	| VQ	|	|	|	|
1+45	1.0291	8.57	| VQ	|	|	|	|
1+50	1.0881	8.57	| VQ	|	|	|	|
1+55	1.1471	8.57	| Q	|	|	|	|
2+ 0	1.2077	8.79	| VQ	|	|	|	|
2+ 5	1.2703	9.09	| VQ	|	|	|	|
2+10	1.3319	8.95	| Q	|	|	|	|
2+15	1.3965	9.38	| Q	|	|	|	|
2+20	1.4621	9.51	| Q	|	|	|	|
2+25	1.5280	9.57	| QV	|	|	|	|
2+30	1.5941	9.60	| QV	|	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR565

2+35	1.6604	9.62	Q V
2+40	1.7267	9.63	Q V
2+45	1.7946	9.86	Q V
2+50	1.8661	10.38	Q V
2+55	1.9387	10.54	Q V
3+ 0	2.0118	10.62	Q V
3+ 5	2.0852	10.66	Q V
3+10	2.1603	10.90	Q V
3+15	2.2391	11.44	Q V
3+20	2.3191	11.61	Q V
3+25	2.4011	11.91	Q V
3+30	2.4885	12.69	Q V
3+35	2.5823	13.62	Q V
3+40	2.6814	14.39	Q V
3+45	2.7840	14.90	Q V
3+50	2.8912	15.56	Q V
3+55	3.0015	16.02	Q V
4+ 0	3.1163	16.67	Q V
4+ 5	3.2343	17.12	Q V
4+10	3.3581	17.98	Q V
4+15	3.4885	18.94	Q V
4+20	3.6259	19.95	Q V
4+25	3.7704	20.98	Q V
4+30	3.9207	21.82	Q V
4+35	4.0746	22.35	Q V
4+40	4.2348	23.27	Q V
4+45	4.4020	24.26	Q V
4+50	4.5746	25.07	Q V
4+55	4.7509	25.60	Q V
5+ 0	4.9334	26.49	Q V
5+ 5	5.1287	28.36	Q V
5+10	5.3515	32.36	Q V
5+15	5.6034	36.57	QV
5+20	5.8792	40.05	VQ
5+25	6.1809	43.81	V Q
5+30	6.5216	49.46	V Q
5+35	6.8477	47.35	Q
5+40	7.0406	28.01	Q V
5+45	7.1594	17.24	Q V
5+50	7.2402	11.73	Q V
5+55	7.2980	8.40	Q V
6+ 0	7.3366	5.59	Q V
6+ 5	7.3599	3.39	Q V
6+10	7.3688	1.29	Q V
6+15	7.3730	0.61	Q V
6+20	7.3752	0.32	Q V
6+25	7.3763	0.16	Q V
6+30	7.3768	0.07	Q V
6+35	7.3770	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR5245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.238)	0.002	0.017
2	0.17	0.07	0.019	(0.237)	0.002	0.017
3	0.25	0.07	0.019	(0.236)	0.002	0.017
4	0.33	0.10	0.029	(0.235)	0.003	0.026
5	0.42	0.10	0.029	(0.234)	0.003	0.026
6	0.50	0.10	0.029	(0.233)	0.003	0.026
7	0.58	0.10	0.029	(0.232)	0.003	0.026
8	0.67	0.10	0.029	(0.231)	0.003	0.026
9	0.75	0.10	0.029	(0.230)	0.003	0.026
10	0.83	0.13	0.038	(0.230)	0.004	0.034
11	0.92	0.13	0.038	(0.229)	0.004	0.034
12	1.00	0.13	0.038	(0.228)	0.004	0.034
13	1.08	0.10	0.029	(0.227)	0.003	0.026
14	1.17	0.10	0.029	(0.226)	0.003	0.026
15	1.25	0.10	0.029	(0.225)	0.003	0.026
16	1.33	0.10	0.029	(0.224)	0.003	0.026
17	1.42	0.10	0.029	(0.223)	0.003	0.026
18	1.50	0.10	0.029	(0.222)	0.003	0.026
19	1.58	0.10	0.029	(0.222)	0.003	0.026
20	1.67	0.10	0.029	(0.221)	0.003	0.026
21	1.75	0.10	0.029	(0.220)	0.003	0.026
22	1.83	0.13	0.038	(0.219)	0.004	0.034
23	1.92	0.13	0.038	(0.218)	0.004	0.034
24	2.00	0.13	0.038	(0.217)	0.004	0.034
25	2.08	0.13	0.038	(0.216)	0.004	0.034
26	2.17	0.13	0.038	(0.215)	0.004	0.034
27	2.25	0.13	0.038	(0.214)	0.004	0.034
28	2.33	0.13	0.038	(0.214)	0.004	0.034
29	2.42	0.13	0.038	(0.213)	0.004	0.034
30	2.50	0.13	0.038	(0.212)	0.004	0.034
31	2.58	0.17	0.048	(0.211)	0.005	0.043
32	2.67	0.17	0.048	(0.210)	0.005	0.043
33	2.75	0.17	0.048	(0.209)	0.005	0.043
34	2.83	0.17	0.048	(0.208)	0.005	0.043
35	2.92	0.17	0.048	(0.208)	0.005	0.043
36	3.00	0.17	0.048	(0.207)	0.005	0.043
37	3.08	0.17	0.048	(0.206)	0.005	0.043
38	3.17	0.17	0.048	(0.205)	0.005	0.043
39	3.25	0.17	0.048	(0.204)	0.005	0.043
40	3.33	0.17	0.048	(0.203)	0.005	0.043
41	3.42	0.17	0.048	(0.202)	0.005	0.043
42	3.50	0.17	0.048	(0.202)	0.005	0.043
43	3.58	0.17	0.048	(0.201)	0.005	0.043
44	3.67	0.17	0.048	(0.200)	0.005	0.043
45	3.75	0.17	0.048	(0.199)	0.005	0.043
46	3.83	0.20	0.057	(0.198)	0.006	0.052

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.057	(0.197)	0.006	0.052
48	4.00	0.20	0.057	(0.197)	0.006	0.052
49	4.08	0.20	0.057	(0.196)	0.006	0.052
50	4.17	0.20	0.057	(0.195)	0.006	0.052
51	4.25	0.20	0.057	(0.194)	0.006	0.052
52	4.33	0.23	0.067	(0.193)	0.007	0.060
53	4.42	0.23	0.067	(0.192)	0.007	0.060
54	4.50	0.23	0.067	(0.192)	0.007	0.060
55	4.58	0.23	0.067	(0.191)	0.007	0.060
56	4.67	0.23	0.067	(0.190)	0.007	0.060
57	4.75	0.23	0.067	(0.189)	0.007	0.060
58	4.83	0.27	0.077	(0.188)	0.008	0.069
59	4.92	0.27	0.077	(0.187)	0.008	0.069
60	5.00	0.27	0.077	(0.187)	0.008	0.069
61	5.08	0.20	0.057	(0.186)	0.006	0.052
62	5.17	0.20	0.057	(0.185)	0.006	0.052
63	5.25	0.20	0.057	(0.184)	0.006	0.052
64	5.33	0.23	0.067	(0.183)	0.007	0.060
65	5.42	0.23	0.067	(0.183)	0.007	0.060
66	5.50	0.23	0.067	(0.182)	0.007	0.060
67	5.58	0.27	0.077	(0.181)	0.008	0.069
68	5.67	0.27	0.077	(0.180)	0.008	0.069
69	5.75	0.27	0.077	(0.179)	0.008	0.069
70	5.83	0.27	0.077	(0.179)	0.008	0.069
71	5.92	0.27	0.077	(0.178)	0.008	0.069
72	6.00	0.27	0.077	(0.177)	0.008	0.069
73	6.08	0.30	0.086	(0.176)	0.009	0.078
74	6.17	0.30	0.086	(0.175)	0.009	0.078
75	6.25	0.30	0.086	(0.175)	0.009	0.078
76	6.33	0.30	0.086	(0.174)	0.009	0.078
77	6.42	0.30	0.086	(0.173)	0.009	0.078
78	6.50	0.30	0.086	(0.172)	0.009	0.078
79	6.58	0.33	0.096	(0.172)	0.010	0.086
80	6.67	0.33	0.096	(0.171)	0.010	0.086
81	6.75	0.33	0.096	(0.170)	0.010	0.086
82	6.83	0.33	0.096	(0.169)	0.010	0.086
83	6.92	0.33	0.096	(0.169)	0.010	0.086
84	7.00	0.33	0.096	(0.168)	0.010	0.086
85	7.08	0.33	0.096	(0.167)	0.010	0.086
86	7.17	0.33	0.096	(0.166)	0.010	0.086
87	7.25	0.33	0.096	(0.165)	0.010	0.086
88	7.33	0.37	0.105	(0.165)	0.011	0.095
89	7.42	0.37	0.105	(0.164)	0.011	0.095
90	7.50	0.37	0.105	(0.163)	0.011	0.095
91	7.58	0.40	0.115	(0.162)	0.011	0.103
92	7.67	0.40	0.115	(0.162)	0.011	0.103
93	7.75	0.40	0.115	(0.161)	0.011	0.103
94	7.83	0.43	0.124	(0.160)	0.012	0.112
95	7.92	0.43	0.124	(0.159)	0.012	0.112
96	8.00	0.43	0.124	(0.159)	0.012	0.112
97	8.08	0.50	0.144	(0.158)	0.014	0.129
98	8.17	0.50	0.144	(0.157)	0.014	0.129
99	8.25	0.50	0.144	(0.157)	0.014	0.129
100	8.33	0.50	0.144	(0.156)	0.014	0.129
101	8.42	0.50	0.144	(0.155)	0.014	0.129
102	8.50	0.50	0.144	(0.154)	0.014	0.129
103	8.58	0.53	0.153	(0.154)	0.015	0.138
104	8.67	0.53	0.153	(0.153)	0.015	0.138
105	8.75	0.53	0.153	(0.152)	0.015	0.138
106	8.83	0.57	0.163	(0.151)	0.016	0.147
107	8.92	0.57	0.163	(0.151)	0.016	0.147
108	9.00	0.57	0.163	(0.150)	0.016	0.147
109	9.08	0.63	0.182	(0.149)	0.018	0.164
110	9.17	0.63	0.182	(0.149)	0.018	0.164
111	9.25	0.63	0.182	(0.148)	0.018	0.164
112	9.33	0.67	0.192	(0.147)	0.019	0.172
113	9.42	0.67	0.192	(0.147)	0.019	0.172
114	9.50	0.67	0.192	(0.146)	0.019	0.172
115	9.58	0.70	0.201	(0.145)	0.020	0.181
116	9.67	0.70	0.201	(0.144)	0.020	0.181
117	9.75	0.70	0.201	(0.144)	0.020	0.181
118	9.83	0.73	0.211	(0.143)	0.021	0.190
119	9.92	0.73	0.211	(0.142)	0.021	0.190
120	10.00	0.73	0.211	(0.142)	0.021	0.190
121	10.08	0.50	0.144	(0.141)	0.014	0.129
122	10.17	0.50	0.144	(0.140)	0.014	0.129
123	10.25	0.50	0.144	(0.140)	0.014	0.129

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.144	(0.139)	0.014	0.129
125	10.42	0.50	0.144	(0.138)	0.014	0.129
126	10.50	0.50	0.144	(0.138)	0.014	0.129
127	10.58	0.67	0.192	(0.137)	0.019	0.172
128	10.67	0.67	0.192	(0.136)	0.019	0.172
129	10.75	0.67	0.192	(0.136)	0.019	0.172
130	10.83	0.67	0.192	(0.135)	0.019	0.172
131	10.92	0.67	0.192	(0.134)	0.019	0.172
132	11.00	0.67	0.192	(0.134)	0.019	0.172
133	11.08	0.63	0.182	(0.133)	0.018	0.164
134	11.17	0.63	0.182	(0.132)	0.018	0.164
135	11.25	0.63	0.182	(0.132)	0.018	0.164
136	11.33	0.63	0.182	(0.131)	0.018	0.164
137	11.42	0.63	0.182	(0.130)	0.018	0.164
138	11.50	0.63	0.182	(0.130)	0.018	0.164
139	11.58	0.57	0.163	(0.129)	0.016	0.147
140	11.67	0.57	0.163	(0.128)	0.016	0.147
141	11.75	0.57	0.163	(0.128)	0.016	0.147
142	11.83	0.60	0.172	(0.127)	0.017	0.155
143	11.92	0.60	0.172	(0.126)	0.017	0.155
144	12.00	0.60	0.172	(0.126)	0.017	0.155
145	12.08	0.83	0.239	(0.125)	0.024	0.215
146	12.17	0.83	0.239	(0.125)	0.024	0.215
147	12.25	0.83	0.239	(0.124)	0.024	0.215
148	12.33	0.87	0.249	(0.123)	0.025	0.224
149	12.42	0.87	0.249	(0.123)	0.025	0.224
150	12.50	0.87	0.249	(0.122)	0.025	0.224
151	12.58	0.93	0.268	(0.121)	0.027	0.241
152	12.67	0.93	0.268	(0.121)	0.027	0.241
153	12.75	0.93	0.268	(0.120)	0.027	0.241
154	12.83	0.97	0.278	(0.120)	0.028	0.250
155	12.92	0.97	0.278	(0.119)	0.028	0.250
156	13.00	0.97	0.278	(0.118)	0.028	0.250
157	13.08	1.13	0.326	(0.118)	0.033	0.293
158	13.17	1.13	0.326	(0.117)	0.033	0.293
159	13.25	1.13	0.326	(0.117)	0.033	0.293
160	13.33	1.13	0.326	(0.116)	0.033	0.293
161	13.42	1.13	0.326	(0.115)	0.033	0.293
162	13.50	1.13	0.326	(0.115)	0.033	0.293
163	13.58	0.77	0.220	(0.114)	0.022	0.198
164	13.67	0.77	0.220	(0.114)	0.022	0.198
165	13.75	0.77	0.220	(0.113)	0.022	0.198
166	13.83	0.77	0.220	(0.113)	0.022	0.198
167	13.92	0.77	0.220	(0.112)	0.022	0.198
168	14.00	0.77	0.220	(0.111)	0.022	0.198
169	14.08	0.90	0.259	(0.111)	0.026	0.233
170	14.17	0.90	0.259	(0.110)	0.026	0.233
171	14.25	0.90	0.259	(0.110)	0.026	0.233
172	14.33	0.87	0.249	(0.109)	0.025	0.224
173	14.42	0.87	0.249	(0.109)	0.025	0.224
174	14.50	0.87	0.249	(0.108)	0.025	0.224
175	14.58	0.87	0.249	(0.107)	0.025	0.224
176	14.67	0.87	0.249	(0.107)	0.025	0.224
177	14.75	0.87	0.249	(0.106)	0.025	0.224
178	14.83	0.83	0.239	(0.106)	0.024	0.215
179	14.92	0.83	0.239	(0.105)	0.024	0.215
180	15.00	0.83	0.239	(0.105)	0.024	0.215
181	15.08	0.80	0.230	(0.104)	0.023	0.207
182	15.17	0.80	0.230	(0.104)	0.023	0.207
183	15.25	0.80	0.230	(0.103)	0.023	0.207
184	15.33	0.77	0.220	(0.103)	0.022	0.198
185	15.42	0.77	0.220	(0.102)	0.022	0.198
186	15.50	0.77	0.220	(0.102)	0.022	0.198
187	15.58	0.63	0.182	(0.101)	0.018	0.164
188	15.67	0.63	0.182	(0.101)	0.018	0.164
189	15.75	0.63	0.182	(0.100)	0.018	0.164
190	15.83	0.63	0.182	(0.100)	0.018	0.164
191	15.92	0.63	0.182	(0.099)	0.018	0.164
192	16.00	0.63	0.182	(0.099)	0.018	0.164
193	16.08	0.13	0.038	(0.098)	0.004	0.034
194	16.17	0.13	0.038	(0.098)	0.004	0.034
195	16.25	0.13	0.038	(0.097)	0.004	0.034
196	16.33	0.13	0.038	(0.097)	0.004	0.034
197	16.42	0.13	0.038	(0.096)	0.004	0.034
198	16.50	0.13	0.038	(0.096)	0.004	0.034
199	16.58	0.10	0.029	(0.095)	0.003	0.026
200	16.67	0.10	0.029	(0.095)	0.003	0.026

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.029	(0.094)	0.003	0.026
202	16.83	0.10	0.029	(0.094)	0.003	0.026
203	16.92	0.10	0.029	(0.093)	0.003	0.026
204	17.00	0.10	0.029	(0.093)	0.003	0.026
205	17.08	0.17	0.048	(0.092)	0.005	0.043
206	17.17	0.17	0.048	(0.092)	0.005	0.043
207	17.25	0.17	0.048	(0.091)	0.005	0.043
208	17.33	0.17	0.048	(0.091)	0.005	0.043
209	17.42	0.17	0.048	(0.090)	0.005	0.043
210	17.50	0.17	0.048	(0.090)	0.005	0.043
211	17.58	0.17	0.048	(0.089)	0.005	0.043
212	17.67	0.17	0.048	(0.089)	0.005	0.043
213	17.75	0.17	0.048	(0.089)	0.005	0.043
214	17.83	0.13	0.038	(0.088)	0.004	0.034
215	17.92	0.13	0.038	(0.088)	0.004	0.034
216	18.00	0.13	0.038	(0.087)	0.004	0.034
217	18.08	0.13	0.038	(0.087)	0.004	0.034
218	18.17	0.13	0.038	(0.086)	0.004	0.034
219	18.25	0.13	0.038	(0.086)	0.004	0.034
220	18.33	0.13	0.038	(0.086)	0.004	0.034
221	18.42	0.13	0.038	(0.085)	0.004	0.034
222	18.50	0.13	0.038	(0.085)	0.004	0.034
223	18.58	0.10	0.029	(0.084)	0.003	0.026
224	18.67	0.10	0.029	(0.084)	0.003	0.026
225	18.75	0.10	0.029	(0.084)	0.003	0.026
226	18.83	0.07	0.019	(0.083)	0.002	0.017
227	18.92	0.07	0.019	(0.083)	0.002	0.017
228	19.00	0.07	0.019	(0.082)	0.002	0.017
229	19.08	0.10	0.029	(0.082)	0.003	0.026
230	19.17	0.10	0.029	(0.082)	0.003	0.026
231	19.25	0.10	0.029	(0.081)	0.003	0.026
232	19.33	0.13	0.038	(0.081)	0.004	0.034
233	19.42	0.13	0.038	(0.080)	0.004	0.034
234	19.50	0.13	0.038	(0.080)	0.004	0.034
235	19.58	0.10	0.029	(0.080)	0.003	0.026
236	19.67	0.10	0.029	(0.079)	0.003	0.026
237	19.75	0.10	0.029	(0.079)	0.003	0.026
238	19.83	0.07	0.019	(0.079)	0.002	0.017
239	19.92	0.07	0.019	(0.078)	0.002	0.017
240	20.00	0.07	0.019	(0.078)	0.002	0.017
241	20.08	0.10	0.029	(0.078)	0.003	0.026
242	20.17	0.10	0.029	(0.077)	0.003	0.026
243	20.25	0.10	0.029	(0.077)	0.003	0.026
244	20.33	0.10	0.029	(0.077)	0.003	0.026
245	20.42	0.10	0.029	(0.076)	0.003	0.026
246	20.50	0.10	0.029	(0.076)	0.003	0.026
247	20.58	0.10	0.029	(0.076)	0.003	0.026
248	20.67	0.10	0.029	(0.075)	0.003	0.026
249	20.75	0.10	0.029	(0.075)	0.003	0.026
250	20.83	0.07	0.019	(0.075)	0.002	0.017
251	20.92	0.07	0.019	(0.074)	0.002	0.017
252	21.00	0.07	0.019	(0.074)	0.002	0.017
253	21.08	0.10	0.029	(0.074)	0.003	0.026
254	21.17	0.10	0.029	(0.073)	0.003	0.026
255	21.25	0.10	0.029	(0.073)	0.003	0.026
256	21.33	0.07	0.019	(0.073)	0.002	0.017
257	21.42	0.07	0.019	(0.073)	0.002	0.017
258	21.50	0.07	0.019	(0.072)	0.002	0.017
259	21.58	0.10	0.029	(0.072)	0.003	0.026
260	21.67	0.10	0.029	(0.072)	0.003	0.026
261	21.75	0.10	0.029	(0.072)	0.003	0.026
262	21.83	0.07	0.019	(0.071)	0.002	0.017
263	21.92	0.07	0.019	(0.071)	0.002	0.017
264	22.00	0.07	0.019	(0.071)	0.002	0.017
265	22.08	0.10	0.029	(0.071)	0.003	0.026
266	22.17	0.10	0.029	(0.070)	0.003	0.026
267	22.25	0.10	0.029	(0.070)	0.003	0.026
268	22.33	0.07	0.019	(0.070)	0.002	0.017
269	22.42	0.07	0.019	(0.070)	0.002	0.017
270	22.50	0.07	0.019	(0.069)	0.002	0.017
271	22.58	0.07	0.019	(0.069)	0.002	0.017
272	22.67	0.07	0.019	(0.069)	0.002	0.017
273	22.75	0.07	0.019	(0.069)	0.002	0.017
274	22.83	0.07	0.019	(0.069)	0.002	0.017
275	22.92	0.07	0.019	(0.069)	0.002	0.017
276	23.00	0.07	0.019	(0.068)	0.002	0.017
277	23.08	0.07	0.019	(0.068)	0.002	0.017

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.019	(	0.068)	0.002	0.017
279	23.25	0.07	0.019	(	0.068)	0.002	0.017
280	23.33	0.07	0.019	(	0.068)	0.002	0.017
281	23.42	0.07	0.019	(	0.068)	0.002	0.017
282	23.50	0.07	0.019	(	0.068)	0.002	0.017
283	23.58	0.07	0.019	(	0.067)	0.002	0.017
284	23.67	0.07	0.019	(	0.067)	0.002	0.017
285	23.75	0.07	0.019	(	0.067)	0.002	0.017
286	23.83	0.07	0.019	(	0.067)	0.002	0.017
287	23.92	0.07	0.019	(	0.067)	0.002	0.017
288	24.00	0.07	0.019	(	0.067)	0.002	0.017

(Loss Rate Not Used)

Sum = 100.0 Sum = 25.9

Flood volume = Effective rainfall 2.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.0(Ac.Ft)
Total soil loss = 0.24(In)
Total soil loss = 1.339(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 524759.2 Cubic Feet
Total soil loss = 58306.6 Cubic Feet

Peak flow rate of this hydrograph = 19.746(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0017	0.24	Q				
0+10	0.0072	0.81	VQ				
0+15	0.0140	0.98	VQ				
0+20	0.0221	1.18	V Q				
0+25	0.0325	1.51	V Q				
0+30	0.0437	1.63	V Q				
0+35	0.0553	1.68	V Q				
0+40	0.0672	1.72	V Q				
0+45	0.0791	1.73	V Q				
0+50	0.0919	1.86	V Q				
0+55	0.1068	2.15	V Q				
1+ 0	0.1222	2.24	V Q				
1+ 5	0.1371	2.16	V Q				
1+10	0.1501	1.90	V Q				
1+15	0.1627	1.83	V Q				
1+20	0.1751	1.79	V Q				
1+25	0.1873	1.78	V Q				
1+30	0.1995	1.76	V Q				
1+35	0.2116	1.76	V Q				
1+40	0.2236	1.75	V Q				
1+45	0.2357	1.75	V Q				
1+50	0.2485	1.87	V Q				
1+55	0.2634	2.15	V Q				
2+ 0	0.2788	2.24	V Q				
2+ 5	0.2945	2.28	V Q				
2+10	0.3104	2.30	|V Q				
2+15	0.3263	2.32	|V Q				
2+20	0.3423	2.33	|V Q				
2+25	0.3584	2.33	|V Q				
2+30	0.3745	2.33	|V Q				
2+35	0.3913	2.45	|V Q				
2+40	0.4102	2.74	|V Q				
2+45	0.4296	2.82	|V Q				
2+50	0.4494	2.86	|V Q				
2+55	0.4692	2.89	|V Q				
3+ 0	0.4892	2.90	|V Q				
3+ 5	0.5092	2.91	|V Q				
3+10	0.5293	2.92	|V Q				
3+15	0.5494	2.92	|V Q				
3+20	0.5695	2.92	|V Q				
3+25	0.5895	2.92	|V Q				
3+30	0.6096	2.92	| V Q				
3+35	0.6297	2.92	| V Q				
3+40	0.6498	2.92	| V Q				
3+45	0.6699	2.92	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	0.6908	3.04	V Q				
3+55	0.7136	3.32	V Q				
4+ 0	0.7371	3.41	V Q				
4+ 5	0.7608	3.45	V Q				
4+10	0.7847	3.47	V Q				
4+15	0.8087	3.48	V Q				
4+20	0.8336	3.61	V Q				
4+25	0.8604	3.90	V Q				
4+30	0.8879	3.99	V Q				
4+35	0.9157	4.03	V Q				
4+40	0.9436	4.05	V Q				
4+45	0.9716	4.07	V Q				
4+50	1.0005	4.19	V Q				
4+55	1.0314	4.49	V Q				
5+ 0	1.0629	4.57	V Q				
5+ 5	1.0930	4.37	V Q				
5+10	1.1193	3.83	V Q				
5+15	1.1446	3.67	V Q				
5+20	1.1702	3.72	V Q				
5+25	1.1974	3.96	V Q				
5+30	1.2251	4.02	V Q				
5+35	1.2538	4.16	V Q				
5+40	1.2845	4.46	V Q				
5+45	1.3159	4.56	V Q				
5+50	1.3476	4.61	V Q				
5+55	1.3795	4.63	V Q				
6+ 0	1.4115	4.65	V Q				
6+ 5	1.4444	4.78	V Q				
6+10	1.4794	5.07	V Q				
6+15	1.5149	5.16	V Q				
6+20	1.5506	5.20	V Q				
6+25	1.5866	5.22	V Q				
6+30	1.6226	5.23	V Q				
6+35	1.6595	5.36	V Q				
6+40	1.6985	5.65	V Q				
6+45	1.7380	5.74	V Q				
6+50	1.7778	5.78	V Q				
6+55	1.8177	5.80	V Q				
7+ 0	1.8578	5.82	V Q				
7+ 5	1.8979	5.82	V Q				
7+10	1.9380	5.83	V Q				
7+15	1.9782	5.83	V Q				
7+20	2.0192	5.95	V Q				
7+25	2.0621	6.23	V Q				
7+30	2.1057	6.32	V Q				
7+35	2.1503	6.48	V Q				
7+40	2.1971	6.79	V Q				
7+45	2.2445	6.89	V Q				
7+50	2.2931	7.06	V Q				
7+55	2.3439	7.37	V Q				
8+ 0	2.3953	7.47	V Q				
8+ 5	2.4488	7.76	V Q				
8+10	2.5064	8.36	V Q				
8+15	2.5652	8.55	V Q				
8+20	2.6247	8.64	V Q				
8+25	2.6845	8.69	V Q				
8+30	2.7445	8.71	V Q				
8+35	2.8055	8.85	V Q				
8+40	2.8685	9.15	V Q				
8+45	2.9321	9.24	V Q				
8+50	2.9968	9.40	V Q				
8+55	3.0637	9.70	V Q				
9+ 0	3.1312	9.80	V Q				
9+ 5	3.2007	10.09	V Q				
9+10	3.2743	10.69	V Q				
9+15	3.3493	10.88	V Q				
9+20	3.4256	11.09	V Q				
9+25	3.5043	11.42	V Q				
9+30	3.5838	11.54	V Q				
9+35	3.6644	11.72	V Q				
9+40	3.7473	12.04	V Q				
9+45	3.8309	12.14	V Q				
9+50	3.9157	12.31	V Q				
9+55	4.0026	12.62	V Q				
10+ 0	4.0902	12.72	V Q				
10+ 5	4.1723	11.93	V Q				
10+10	4.2410	9.97	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

10+15	4.3055	9.37	V Q
10+20	4.3682	9.10	V Q
10+25	4.4299	8.95	V Q
10+30	4.4909	8.86	V Q
10+35	4.5556	9.40	V Q
10+40	4.6297	10.77	V Q
10+45	4.7069	11.20	V Q
10+50	4.7854	11.40	V Q
10+55	4.8647	11.51	V Q
11+ 0	4.9445	11.58	V Q
11+ 5	5.0237	11.51	V Q
11+10	5.1012	11.26	V Q
11+15	5.1782	11.17	V Q
11+20	5.2548	11.13	V Q
11+25	5.3313	11.11	V Q
11+30	5.4077	11.09	V Q
11+35	5.4824	10.84	V Q
11+40	5.5532	10.27	V Q
11+45	5.6227	10.10	V Q
11+50	5.6925	10.14	V Q
11+55	5.7640	10.38	VQ
12+ 0	5.8358	10.43	VQ
12+ 5	5.9136	11.30	V Q
12+10	6.0052	13.29	V Q
12+15	6.1010	13.92	V Q
12+20	6.1997	14.33	V Q
12+25	6.3014	14.77	V Q
12+30	6.4045	14.96	V Q
12+35	6.5098	15.30	V Q
12+40	6.6196	15.94	V Q
12+45	6.7307	16.13	V Q
12+50	6.8432	16.34	V Q
12+55	6.9580	16.67	V Q
13+ 0	7.0736	16.79	V Q
13+ 5	7.1937	17.44	V Q
13+10	7.3239	18.90	V Q
13+15	7.4571	19.35	V Q
13+20	7.5918	19.56	V Q
13+25	7.7273	19.68	V Q
13+30	7.8633	19.75	V Q
13+35	7.9905	18.47	V Q
13+40	8.0964	15.38	V Q
13+45	8.1957	14.42	VQ
13+50	8.2920	13.98	Q
13+55	8.3867	13.74	Q
14+ 0	8.4802	13.58	QV
14+ 5	8.5764	13.97	QV
14+10	8.6799	15.03	V Q
14+15	8.7858	15.38	VQ
14+20	8.8919	15.41	VQ
14+25	8.9968	15.22	VQ
14+30	9.1014	15.19	Q
14+35	9.2059	15.18	Q
14+40	9.3106	15.19	Q
14+45	9.4151	15.18	QV
14+50	9.5187	15.05	QV
14+55	9.6203	14.76	Q V
15+ 0	9.7213	14.67	Q V
15+ 5	9.8213	14.51	Q V
15+10	9.9191	14.20	Q V
15+15	10.0162	14.10	Q V
15+20	10.1121	13.93	Q V
15+25	10.2059	13.62	Q V
15+30	10.2990	13.52	Q V
15+35	10.3885	12.99	Q V
15+40	10.4699	11.82	Q V
15+45	10.5489	11.46	Q V
15+50	10.6266	11.29	Q V
15+55	10.7037	11.20	Q V
16+ 0	10.7805	11.14	Q V
16+ 5	10.8445	9.30	Q V
16+10	10.8791	5.02	Q V
16+15	10.9046	3.71	Q V
16+20	10.9261	3.11	Q V
16+25	10.9452	2.78	Q V
16+30	10.9629	2.57	Q V
16+35	10.9788	2.32	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	10.9921	1.93	Q				V
16+45	11.0048	1.84	Q				V
16+50	11.0172	1.80	Q				V
16+55	11.0295	1.78	Q				V
17+ 0	11.0416	1.76	Q				V
17+ 5	11.0554	2.00	Q				V
17+10	11.0730	2.56	Q				V
17+15	11.0918	2.73	Q				V
17+20	11.1112	2.81	Q				V
17+25	11.1308	2.86	Q				V
17+30	11.1507	2.88	Q				V
17+35	11.1707	2.90	Q				V
17+40	11.1907	2.92	Q				V
17+45	11.2108	2.92	Q				V
17+50	11.2301	2.80	Q				V
17+55	11.2474	2.51	Q				V
18+ 0	11.2641	2.42	Q				V
18+ 5	11.2805	2.38	Q				V
18+10	11.2967	2.36	Q				V
18+15	11.3129	2.35	Q				V
18+20	11.3290	2.34	Q				V
18+25	11.3451	2.33	Q				V
18+30	11.3612	2.33	Q				V
18+35	11.3764	2.21	Q				V
18+40	11.3897	1.93	Q				V
18+45	11.4023	1.84	Q				V
18+50	11.4139	1.68	Q				V
18+55	11.4234	1.37	Q				V
19+ 0	11.4322	1.27	Q				V
19+ 5	11.4414	1.35	Q				V
19+10	11.4524	1.60	Q				V
19+15	11.4640	1.67	Q				V
19+20	11.4765	1.82	Q				V
19+25	11.4912	2.12	Q				V
19+30	11.5065	2.22	Q				V
19+35	11.5213	2.15	Q				V
19+40	11.5344	1.90	Q				V
19+45	11.5470	1.83	Q				V
19+50	11.5585	1.67	Q				V
19+55	11.5680	1.37	Q				V
20+ 0	11.5767	1.27	Q				V
20+ 5	11.5860	1.35	Q				V
20+10	11.5970	1.60	Q				V
20+15	11.6085	1.67	Q				V
20+20	11.6203	1.70	Q				V
20+25	11.6321	1.72	Q				V
20+30	11.6440	1.73	Q				V
20+35	11.6560	1.74	Q				V
20+40	11.6681	1.75	Q				V
20+45	11.6801	1.75	Q				V
20+50	11.6914	1.63	Q				V
20+55	11.7006	1.35	Q				V
21+ 0	11.7093	1.26	Q				V
21+ 5	11.7185	1.34	Q				V
21+10	11.7295	1.60	Q				V
21+15	11.7410	1.67	Q				V
21+20	11.7520	1.58	Q				V
21+25	11.7610	1.32	Q				V
21+30	11.7696	1.24	Q				V
21+35	11.7787	1.33	Q				V
21+40	11.7898	1.60	Q				V
21+45	11.8013	1.67	Q				V
21+50	11.8122	1.58	Q				V
21+55	11.8212	1.32	Q				V
22+ 0	11.8298	1.24	Q				V
22+ 5	11.8390	1.33	Q				V
22+10	11.8500	1.60	Q				V
22+15	11.8615	1.67	Q				V
22+20	11.8724	1.58	Q				V
22+25	11.8815	1.32	Q				V
22+30	11.8900	1.24	Q				V
22+35	11.8984	1.21	Q				V
22+40	11.9066	1.20	Q				V
22+45	11.9148	1.18	Q				V
22+50	11.9228	1.17	Q				V
22+55	11.9309	1.17	Q				V
23+ 0	11.9389	1.17	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

23+ 5	11.9469	1.17	Q				V
23+10	11.9550	1.17	Q				V
23+15	11.9630	1.17	Q				V
23+20	11.9710	1.17	Q				V
23+25	11.9791	1.17	Q				V
23+30	11.9871	1.17	Q				V
23+35	11.9951	1.17	Q				V
23+40	12.0031	1.17	Q				V
23+45	12.0112	1.17	Q				V
23+50	12.0192	1.17	Q				V
23+55	12.0272	1.17	Q				V
24+ 0	12.0353	1.17	Q				V
24+ 5	12.0416	0.93	Q				V
24+10	12.0441	0.36	Q				V
24+15	12.0454	0.18	Q				V
24+20	12.0461	0.10	Q				V
24+25	12.0465	0.06	Q				V
24+30	12.0467	0.03	Q				V
24+35	12.0468	0.01	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.097)	0.040	0.357
2	0.17	4.30	0.406	(0.097)	0.041	0.366
3	0.25	5.00	0.473	(0.097)	0.047	0.425
4	0.33	5.00	0.473	(0.097)	0.047	0.425
5	0.42	5.80	0.548	(0.097)	0.055	0.493
6	0.50	6.50	0.614	(0.097)	0.061	0.553
7	0.58	7.40	0.699	(0.097)	0.070	0.629
8	0.67	8.60	0.813	(0.097)	0.081	0.731
9	0.75	12.30	1.162	0.097	(0.116)	1.065
10	0.83	29.10	2.750	0.097	(0.275)	2.653
11	0.92	6.80	0.643	(0.097)	0.064	0.578
12	1.00	5.00	0.473	(0.097)	0.047	0.425
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.7

Flood volume = Effective rainfall 0.73(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.1(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.348(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 176635.1 Cubic Feet
Total soil loss = 15180.3 Cubic Feet

Peak flow rate of this hydrograph = 112.980(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0343	4.98	Q				
0+10	0.1505	16.87	V Q				
0+15	0.2992	21.60	V Q				
0+20	0.4734	25.29	VQ				
0+25	0.6649	27.80	QV				
0+30	0.8836	31.76	Q V				
0+35	1.1315	36.00	Q	V			
0+40	1.4156	41.26	Q	V			
0+45	1.7639	50.57	Q	V			
0+50	2.3521	85.41		Q	V		
0+55	3.1302	112.98			Q	V	

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR10110
    1+ 0       3.5479     60.65  |         | Q       |         |   V     |
    1+ 5       3.8036     37.13  |      Q  |         |         |      V  |
    1+10       3.9193     16.80  |  Q      |         |         |       V |
    1+15       3.9845      9.47  |Q        |         |         |        V|
    1+20       4.0227      5.54  |Q        |         |         |        V|
    1+25       4.0464      3.44  Q         |         |         |        V|
    1+30       4.0526      0.89  Q         |         |         |        V|
    1+35       4.0550      0.35  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.097)	0.019	0.173
2	0.17	1.30	0.193	(0.097)	0.019	0.173
3	0.25	1.10	0.163	(0.097)	0.016	0.147
4	0.33	1.50	0.222	(0.097)	0.022	0.200
5	0.42	1.50	0.222	(0.097)	0.022	0.200
6	0.50	1.80	0.267	(0.097)	0.027	0.240
7	0.58	1.50	0.222	(0.097)	0.022	0.200
8	0.67	1.80	0.267	(0.097)	0.027	0.240
9	0.75	1.80	0.267	(0.097)	0.027	0.240
10	0.83	1.50	0.222	(0.097)	0.022	0.200
11	0.92	1.60	0.237	(0.097)	0.024	0.214
12	1.00	1.80	0.267	(0.097)	0.027	0.240
13	1.08	2.20	0.326	(0.097)	0.033	0.294
14	1.17	2.20	0.326	(0.097)	0.033	0.294
15	1.25	2.20	0.326	(0.097)	0.033	0.294
16	1.33	2.00	0.297	(0.097)	0.030	0.267
17	1.42	2.60	0.386	(0.097)	0.039	0.347
18	1.50	2.70	0.400	(0.097)	0.040	0.360
19	1.58	2.40	0.356	(0.097)	0.036	0.320
20	1.67	2.70	0.400	(0.097)	0.040	0.360
21	1.75	3.30	0.489	(0.097)	0.049	0.440
22	1.83	3.10	0.460	(0.097)	0.046	0.414
23	1.92	2.90	0.430	(0.097)	0.043	0.387
24	2.00	3.00	0.445	(0.097)	0.044	0.400
25	2.08	3.10	0.460	(0.097)	0.046	0.414
26	2.17	4.20	0.623	(0.097)	0.062	0.561
27	2.25	5.00	0.741	(0.097)	0.074	0.667
28	2.33	3.50	0.519	(0.097)	0.052	0.467
29	2.42	6.80	1.008	0.097	(0.101)	0.911
30	2.50	7.30	1.082	0.097	(0.108)	0.985
31	2.58	8.20	1.216	0.097	(0.122)	1.119
32	2.67	5.90	0.875	(0.097)	0.087	0.787
33	2.75	2.00	0.297	(0.097)	0.030	0.267
34	2.83	1.80	0.267	(0.097)	0.027	0.240
35	2.92	1.80	0.267	(0.097)	0.027	0.240
36	3.00	0.60	0.089	(0.097)	0.009	0.080
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	13.4

Flood volume = Effective rainfall 1.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.2(Ac.Ft)
Total soil loss = 0.12(In)
Total soil loss = 0.673(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 271693.6 Cubic Feet
Total soil loss = 29296.8 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10310

Peak flow rate of this hydrograph = 65.220(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 17.5 35.0 52.5 70.0
0+ 5	0.0167	2.42	VQ
0+10	0.0727	8.13	V Q
0+15	0.1382	9.52	V Q
0+20	0.2084	10.19	V Q
0+25	0.2919	12.12	V Q
0+30	0.3840	13.38	V Q
0+35	0.4838	14.49	V Q
0+40	0.5828	14.37	V Q
0+45	0.6898	15.53	V Q
0+50	0.7954	15.33	V Q
0+55	0.8944	14.39	V Q
1+ 0	0.9969	14.87	V Q
1+ 5	1.1105	16.50	V Q
1+10	1.2379	18.50	V Q
1+15	1.3699	19.16	V Q
1+20	1.5013	19.09	VQ
1+25	1.6355	19.49	VQ
1+30	1.7882	22.17	VQ
1+35	1.9453	22.81	VQ
1+40	2.1004	22.53	QV
1+45	2.2711	24.78	Q
1+50	2.4599	27.41	Q
1+55	2.6467	27.13	QV
2+ 0	2.8303	26.65	Q V
2+ 5	3.0171	27.13	Q V
2+10	3.2216	29.70	Q V
2+15	3.4710	36.22	Q V
2+20	3.7363	38.52	QV
2+25	4.0110	39.89	Q V
2+30	4.3857	54.41	V Q
2+35	4.8185	62.83	V Q
2+40	5.2676	65.22	V Q
2+45	5.6104	49.78	Q V
2+50	5.8193	30.33	Q V
2+55	5.9804	23.39	Q V
3+ 0	6.1063	18.28	Q V
3+ 5	6.1757	10.08	Q V
3+10	6.2079	4.67	Q V
3+15	6.2237	2.29	Q V
3+20	6.2310	1.06	Q V
3+25	6.2349	0.57	Q V
3+30	6.2368	0.28	Q V
3+35	6.2372	0.07	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.097)	0.010	0.092
2	0.17	0.60	0.123	(0.097)	0.012	0.110
3	0.25	0.60	0.123	(0.097)	0.012	0.110
4	0.33	0.60	0.123	(0.097)	0.012	0.110
5	0.42	0.60	0.123	(0.097)	0.012	0.110
6	0.50	0.70	0.143	(0.097)	0.014	0.129
7	0.58	0.70	0.143	(0.097)	0.014	0.129
8	0.67	0.70	0.143	(0.097)	0.014	0.129
9	0.75	0.70	0.143	(0.097)	0.014	0.129
10	0.83	0.70	0.143	(0.097)	0.014	0.129
11	0.92	0.70	0.143	(0.097)	0.014	0.129
12	1.00	0.80	0.164	(0.097)	0.016	0.147
13	1.08	0.80	0.164	(0.097)	0.016	0.147
14	1.17	0.80	0.164	(0.097)	0.016	0.147
15	1.25	0.80	0.164	(0.097)	0.016	0.147
16	1.33	0.80	0.164	(0.097)	0.016	0.147
17	1.42	0.80	0.164	(0.097)	0.016	0.147
18	1.50	0.80	0.164	(0.097)	0.016	0.147
19	1.58	0.80	0.164	(0.097)	0.016	0.147
20	1.67	0.80	0.164	(0.097)	0.016	0.147
21	1.75	0.80	0.164	(0.097)	0.016	0.147
22	1.83	0.80	0.164	(0.097)	0.016	0.147
23	1.92	0.80	0.164	(0.097)	0.016	0.147
24	2.00	0.90	0.184	(0.097)	0.018	0.166
25	2.08	0.80	0.164	(0.097)	0.016	0.147
26	2.17	0.90	0.184	(0.097)	0.018	0.166
27	2.25	0.90	0.184	(0.097)	0.018	0.166
28	2.33	0.90	0.184	(0.097)	0.018	0.166
29	2.42	0.90	0.184	(0.097)	0.018	0.166
30	2.50	0.90	0.184	(0.097)	0.018	0.166
31	2.58	0.90	0.184	(0.097)	0.018	0.166
32	2.67	0.90	0.184	(0.097)	0.018	0.166
33	2.75	1.00	0.205	(0.097)	0.020	0.184
34	2.83	1.00	0.205	(0.097)	0.020	0.184
35	2.92	1.00	0.205	(0.097)	0.020	0.184
36	3.00	1.00	0.205	(0.097)	0.020	0.184
37	3.08	1.00	0.205	(0.097)	0.020	0.184
38	3.17	1.10	0.225	(0.097)	0.023	0.203
39	3.25	1.10	0.225	(0.097)	0.023	0.203
40	3.33	1.10	0.225	(0.097)	0.023	0.203
41	3.42	1.20	0.246	(0.097)	0.025	0.221
42	3.50	1.30	0.266	(0.097)	0.027	0.239
43	3.58	1.40	0.286	(0.097)	0.029	0.258
44	3.67	1.40	0.286	(0.097)	0.029	0.258
45	3.75	1.50	0.307	(0.097)	0.031	0.276
46	3.83	1.50	0.307	(0.097)	0.031	0.276

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.327	(0.097)	0.033	0.295
48	4.00	1.60	0.327	(0.097)	0.033	0.295
49	4.08	1.70	0.348	(0.097)	0.035	0.313
50	4.17	1.80	0.368	(0.097)	0.037	0.331
51	4.25	1.90	0.389	(0.097)	0.039	0.350
52	4.33	2.00	0.409	(0.097)	0.041	0.368
53	4.42	2.10	0.430	(0.097)	0.043	0.387
54	4.50	2.10	0.430	(0.097)	0.043	0.387
55	4.58	2.20	0.450	(0.097)	0.045	0.405
56	4.67	2.30	0.471	(0.097)	0.047	0.424
57	4.75	2.40	0.491	(0.097)	0.049	0.442
58	4.83	2.40	0.491	(0.097)	0.049	0.442
59	4.92	2.50	0.512	(0.097)	0.051	0.460
60	5.00	2.60	0.532	(0.097)	0.053	0.479
61	5.08	3.10	0.634	(0.097)	0.063	0.571
62	5.17	3.60	0.737	(0.097)	0.074	0.663
63	5.25	3.90	0.798	(0.097)	0.080	0.718
64	5.33	4.20	0.859	(0.097)	0.086	0.773
65	5.42	4.70	0.962	(0.097)	0.096	0.865
66	5.50	5.60	1.146	0.097	(0.115)	1.049
67	5.58	1.90	0.389	(0.097)	0.039	0.350
68	5.67	0.90	0.184	(0.097)	0.018	0.166
69	5.75	0.60	0.123	(0.097)	0.012	0.110
70	5.83	0.50	0.102	(0.097)	0.010	0.092
71	5.92	0.30	0.061	(0.097)	0.006	0.055
72	6.00	0.20	0.041	(0.097)	0.004	0.037

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.4

Flood volume = Effective rainfall 1.54(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.6(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.945(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 374120.1 Cubic Feet
Total soil loss = 41173.7 Cubic Feet

Peak flow rate of this hydrograph = 57.779(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0088	1.28	Q				
0+10	0.0403	4.57	V Q				
0+15	0.0824	6.11	V Q				
0+20	0.1287	6.72	V Q				
0+25	0.1773	7.05	V Q				
0+30	0.2289	7.50	V Q				
0+35	0.2856	8.23	V Q				
0+40	0.3442	8.51	V Q				
0+45	0.4035	8.61	V Q				
0+50	0.4632	8.66	V Q				
0+55	0.5230	8.69	V Q				
1+ 0	0.5847	8.96	V Q				
1+ 5	0.6507	9.58	V Q				
1+10	0.7180	9.77	V Q				
1+15	0.7859	9.86	V Q				
1+20	0.8541	9.90	V Q				
1+25	0.9225	9.93	V Q				
1+30	0.9911	9.95	V Q				
1+35	1.0597	9.97	V Q				
1+40	1.1283	9.97	VQ				
1+45	1.1970	9.97	VQ				
1+50	1.2656	9.97	VQ				
1+55	1.3343	9.97	Q				
2+ 0	1.4047	10.22	Q				
2+ 5	1.4775	10.57	VQ				
2+10	1.5492	10.41	QV				
2+15	1.6244	10.92	Q				
2+20	1.7006	11.06	Q				
2+25	1.7773	11.13	QV				
2+30	1.8542	11.17	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10610

2+35	1.9313	11.19	QV
2+40	2.0084	11.20	Q V
2+45	2.0874	11.47	Q V
2+50	2.1705	12.08	Q V
2+55	2.2550	12.26	Q V
3+ 0	2.3400	12.35	Q V
3+ 5	2.4254	12.40	Q V
3+10	2.5127	12.68	Q V
3+15	2.6044	13.31	Q V
3+20	2.6974	13.51	Q V
3+25	2.7928	13.85	Q V
3+30	2.8945	14.76	Q V
3+35	3.0036	15.84	Q V
3+40	3.1189	16.74	Q V
3+45	3.2382	17.33	Q V
3+50	3.3628	18.10	Q V
3+55	3.4912	18.64	Q V
4+ 0	3.6247	19.39	Q V
4+ 5	3.7619	19.92	Q V
4+10	3.9059	20.91	Q V
4+15	4.0576	22.03	Q V
4+20	4.2174	23.21	Q V
4+25	4.3855	24.41	Q V
4+30	4.5603	25.38	Q V
4+35	4.7394	26.00	Q V
4+40	4.9257	27.06	Q V
4+45	5.1201	28.22	Q V
4+50	5.3209	29.16	Q V
4+55	5.5260	29.77	Q V
5+ 0	5.7382	30.81	Q V
5+ 5	5.9654	32.99	Q V
5+10	6.2246	37.64	Q V
5+15	6.5176	42.54	Q V
5+20	6.8384	46.58	Q
5+25	7.1893	50.95	Q
5+30	7.5872	57.78	V Q
5+35	7.9705	55.66	Q
5+40	8.1961	32.75	Q V
5+45	8.3348	20.14	Q V
5+50	8.4291	13.69	Q V
5+55	8.4966	9.80	Q V
6+ 0	8.5415	6.52	Q V
6+ 5	8.5688	3.96	Q V
6+10	8.5791	1.50	Q V
6+15	8.5840	0.71	Q V
6+20	8.5865	0.37	Q V
6+25	8.5878	0.19	Q V
6+30	8.5884	0.08	Q V
6+35	8.5886	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR102410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.172)	0.002	0.021
2	0.17	0.07	0.023	(0.171)	0.002	0.021
3	0.25	0.07	0.023	(0.171)	0.002	0.021
4	0.33	0.10	0.035	(0.170)	0.003	0.031
5	0.42	0.10	0.035	(0.169)	0.003	0.031
6	0.50	0.10	0.035	(0.169)	0.003	0.031
7	0.58	0.10	0.035	(0.168)	0.003	0.031
8	0.67	0.10	0.035	(0.167)	0.003	0.031
9	0.75	0.10	0.035	(0.167)	0.003	0.031
10	0.83	0.13	0.046	(0.166)	0.005	0.041
11	0.92	0.13	0.046	(0.165)	0.005	0.041
12	1.00	0.13	0.046	(0.165)	0.005	0.041
13	1.08	0.10	0.035	(0.164)	0.003	0.031
14	1.17	0.10	0.035	(0.163)	0.003	0.031
15	1.25	0.10	0.035	(0.163)	0.003	0.031
16	1.33	0.10	0.035	(0.162)	0.003	0.031
17	1.42	0.10	0.035	(0.162)	0.003	0.031
18	1.50	0.10	0.035	(0.161)	0.003	0.031
19	1.58	0.10	0.035	(0.160)	0.003	0.031
20	1.67	0.10	0.035	(0.160)	0.003	0.031
21	1.75	0.10	0.035	(0.159)	0.003	0.031
22	1.83	0.13	0.046	(0.158)	0.005	0.041
23	1.92	0.13	0.046	(0.158)	0.005	0.041
24	2.00	0.13	0.046	(0.157)	0.005	0.041
25	2.08	0.13	0.046	(0.156)	0.005	0.041
26	2.17	0.13	0.046	(0.156)	0.005	0.041
27	2.25	0.13	0.046	(0.155)	0.005	0.041
28	2.33	0.13	0.046	(0.155)	0.005	0.041
29	2.42	0.13	0.046	(0.154)	0.005	0.041
30	2.50	0.13	0.046	(0.153)	0.005	0.041
31	2.58	0.17	0.058	(0.153)	0.006	0.052
32	2.67	0.17	0.058	(0.152)	0.006	0.052
33	2.75	0.17	0.058	(0.151)	0.006	0.052
34	2.83	0.17	0.058	(0.151)	0.006	0.052
35	2.92	0.17	0.058	(0.150)	0.006	0.052
36	3.00	0.17	0.058	(0.150)	0.006	0.052
37	3.08	0.17	0.058	(0.149)	0.006	0.052
38	3.17	0.17	0.058	(0.148)	0.006	0.052
39	3.25	0.17	0.058	(0.148)	0.006	0.052
40	3.33	0.17	0.058	(0.147)	0.006	0.052
41	3.42	0.17	0.058	(0.146)	0.006	0.052
42	3.50	0.17	0.058	(0.146)	0.006	0.052
43	3.58	0.17	0.058	(0.145)	0.006	0.052
44	3.67	0.17	0.058	(0.145)	0.006	0.052
45	3.75	0.17	0.058	(0.144)	0.006	0.052
46	3.83	0.20	0.069	(0.143)	0.007	0.062

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.069	(0.143)	0.007	0.062
48	4.00	0.20	0.069	(0.142)	0.007	0.062
49	4.08	0.20	0.069	(0.142)	0.007	0.062
50	4.17	0.20	0.069	(0.141)	0.007	0.062
51	4.25	0.20	0.069	(0.140)	0.007	0.062
52	4.33	0.23	0.081	(0.140)	0.008	0.073
53	4.42	0.23	0.081	(0.139)	0.008	0.073
54	4.50	0.23	0.081	(0.139)	0.008	0.073
55	4.58	0.23	0.081	(0.138)	0.008	0.073
56	4.67	0.23	0.081	(0.137)	0.008	0.073
57	4.75	0.23	0.081	(0.137)	0.008	0.073
58	4.83	0.27	0.092	(0.136)	0.009	0.083
59	4.92	0.27	0.092	(0.136)	0.009	0.083
60	5.00	0.27	0.092	(0.135)	0.009	0.083
61	5.08	0.20	0.069	(0.134)	0.007	0.062
62	5.17	0.20	0.069	(0.134)	0.007	0.062
63	5.25	0.20	0.069	(0.133)	0.007	0.062
64	5.33	0.23	0.081	(0.133)	0.008	0.073
65	5.42	0.23	0.081	(0.132)	0.008	0.073
66	5.50	0.23	0.081	(0.132)	0.008	0.073
67	5.58	0.27	0.092	(0.131)	0.009	0.083
68	5.67	0.27	0.092	(0.130)	0.009	0.083
69	5.75	0.27	0.092	(0.130)	0.009	0.083
70	5.83	0.27	0.092	(0.129)	0.009	0.083
71	5.92	0.27	0.092	(0.129)	0.009	0.083
72	6.00	0.27	0.092	(0.128)	0.009	0.083
73	6.08	0.30	0.104	(0.128)	0.010	0.093
74	6.17	0.30	0.104	(0.127)	0.010	0.093
75	6.25	0.30	0.104	(0.126)	0.010	0.093
76	6.33	0.30	0.104	(0.126)	0.010	0.093
77	6.42	0.30	0.104	(0.125)	0.010	0.093
78	6.50	0.30	0.104	(0.125)	0.010	0.093
79	6.58	0.33	0.115	(0.124)	0.012	0.104
80	6.67	0.33	0.115	(0.124)	0.012	0.104
81	6.75	0.33	0.115	(0.123)	0.012	0.104
82	6.83	0.33	0.115	(0.122)	0.012	0.104
83	6.92	0.33	0.115	(0.122)	0.012	0.104
84	7.00	0.33	0.115	(0.121)	0.012	0.104
85	7.08	0.33	0.115	(0.121)	0.012	0.104
86	7.17	0.33	0.115	(0.120)	0.012	0.104
87	7.25	0.33	0.115	(0.120)	0.012	0.104
88	7.33	0.37	0.127	(0.119)	0.013	0.114
89	7.42	0.37	0.127	(0.119)	0.013	0.114
90	7.50	0.37	0.127	(0.118)	0.013	0.114
91	7.58	0.40	0.138	(0.118)	0.014	0.124
92	7.67	0.40	0.138	(0.117)	0.014	0.124
93	7.75	0.40	0.138	(0.116)	0.014	0.124
94	7.83	0.43	0.150	(0.116)	0.015	0.135
95	7.92	0.43	0.150	(0.115)	0.015	0.135
96	8.00	0.43	0.150	(0.115)	0.015	0.135
97	8.08	0.50	0.173	(0.114)	0.017	0.156
98	8.17	0.50	0.173	(0.114)	0.017	0.156
99	8.25	0.50	0.173	(0.113)	0.017	0.156
100	8.33	0.50	0.173	(0.113)	0.017	0.156
101	8.42	0.50	0.173	(0.112)	0.017	0.156
102	8.50	0.50	0.173	(0.112)	0.017	0.156
103	8.58	0.53	0.184	(0.111)	0.018	0.166
104	8.67	0.53	0.184	(0.111)	0.018	0.166
105	8.75	0.53	0.184	(0.110)	0.018	0.166
106	8.83	0.57	0.196	(0.110)	0.020	0.176
107	8.92	0.57	0.196	(0.109)	0.020	0.176
108	9.00	0.57	0.196	(0.109)	0.020	0.176
109	9.08	0.63	0.219	(0.108)	0.022	0.197
110	9.17	0.63	0.219	(0.108)	0.022	0.197
111	9.25	0.63	0.219	(0.107)	0.022	0.197
112	9.33	0.67	0.230	(0.107)	0.023	0.207
113	9.42	0.67	0.230	(0.106)	0.023	0.207
114	9.50	0.67	0.230	(0.105)	0.023	0.207
115	9.58	0.70	0.242	(0.105)	0.024	0.218
116	9.67	0.70	0.242	(0.104)	0.024	0.218
117	9.75	0.70	0.242	(0.104)	0.024	0.218
118	9.83	0.73	0.254	(0.103)	0.025	0.228
119	9.92	0.73	0.254	(0.103)	0.025	0.228
120	10.00	0.73	0.254	(0.102)	0.025	0.228
121	10.08	0.50	0.173	(0.102)	0.017	0.156
122	10.17	0.50	0.173	(0.101)	0.017	0.156
123	10.25	0.50	0.173	(0.101)	0.017	0.156

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.173	(0.101)	0.017	0.156
125	10.42	0.50	0.173	(0.100)	0.017	0.156
126	10.50	0.50	0.173	(0.100)	0.017	0.156
127	10.58	0.67	0.230	(0.099)	0.023	0.207
128	10.67	0.67	0.230	(0.099)	0.023	0.207
129	10.75	0.67	0.230	(0.098)	0.023	0.207
130	10.83	0.67	0.230	(0.098)	0.023	0.207
131	10.92	0.67	0.230	(0.097)	0.023	0.207
132	11.00	0.67	0.230	(0.097)	0.023	0.207
133	11.08	0.63	0.219	(0.096)	0.022	0.197
134	11.17	0.63	0.219	(0.096)	0.022	0.197
135	11.25	0.63	0.219	(0.095)	0.022	0.197
136	11.33	0.63	0.219	(0.095)	0.022	0.197
137	11.42	0.63	0.219	(0.094)	0.022	0.197
138	11.50	0.63	0.219	(0.094)	0.022	0.197
139	11.58	0.57	0.196	(0.093)	0.020	0.176
140	11.67	0.57	0.196	(0.093)	0.020	0.176
141	11.75	0.57	0.196	(0.092)	0.020	0.176
142	11.83	0.60	0.207	(0.092)	0.021	0.187
143	11.92	0.60	0.207	(0.092)	0.021	0.187
144	12.00	0.60	0.207	(0.091)	0.021	0.187
145	12.08	0.83	0.288	(0.091)	0.029	0.259
146	12.17	0.83	0.288	(0.090)	0.029	0.259
147	12.25	0.83	0.288	(0.090)	0.029	0.259
148	12.33	0.87	0.300	(0.089)	0.030	0.270
149	12.42	0.87	0.300	(0.089)	0.030	0.270
150	12.50	0.87	0.300	(0.088)	0.030	0.270
151	12.58	0.93	0.323	(0.088)	0.032	0.290
152	12.67	0.93	0.323	(0.087)	0.032	0.290
153	12.75	0.93	0.323	(0.087)	0.032	0.290
154	12.83	0.97	0.334	(0.087)	0.033	0.301
155	12.92	0.97	0.334	(0.086)	0.033	0.301
156	13.00	0.97	0.334	(0.086)	0.033	0.301
157	13.08	1.13	0.392	(0.085)	0.039	0.353
158	13.17	1.13	0.392	(0.085)	0.039	0.353
159	13.25	1.13	0.392	(0.084)	0.039	0.353
160	13.33	1.13	0.392	(0.084)	0.039	0.353
161	13.42	1.13	0.392	(0.084)	0.039	0.353
162	13.50	1.13	0.392	(0.083)	0.039	0.353
163	13.58	0.77	0.265	(0.083)	0.027	0.239
164	13.67	0.77	0.265	(0.082)	0.027	0.239
165	13.75	0.77	0.265	(0.082)	0.027	0.239
166	13.83	0.77	0.265	(0.081)	0.027	0.239
167	13.92	0.77	0.265	(0.081)	0.027	0.239
168	14.00	0.77	0.265	(0.081)	0.027	0.239
169	14.08	0.90	0.311	(0.080)	0.031	0.280
170	14.17	0.90	0.311	(0.080)	0.031	0.280
171	14.25	0.90	0.311	(0.079)	0.031	0.280
172	14.33	0.87	0.300	(0.079)	0.030	0.270
173	14.42	0.87	0.300	(0.079)	0.030	0.270
174	14.50	0.87	0.300	(0.078)	0.030	0.270
175	14.58	0.87	0.300	(0.078)	0.030	0.270
176	14.67	0.87	0.300	(0.077)	0.030	0.270
177	14.75	0.87	0.300	(0.077)	0.030	0.270
178	14.83	0.83	0.288	(0.077)	0.029	0.259
179	14.92	0.83	0.288	(0.076)	0.029	0.259
180	15.00	0.83	0.288	(0.076)	0.029	0.259
181	15.08	0.80	0.277	(0.075)	0.028	0.249
182	15.17	0.80	0.277	(0.075)	0.028	0.249
183	15.25	0.80	0.277	(0.075)	0.028	0.249
184	15.33	0.77	0.265	(0.074)	0.027	0.239
185	15.42	0.77	0.265	(0.074)	0.027	0.239
186	15.50	0.77	0.265	(0.073)	0.027	0.239
187	15.58	0.63	0.219	(0.073)	0.022	0.197
188	15.67	0.63	0.219	(0.073)	0.022	0.197
189	15.75	0.63	0.219	(0.072)	0.022	0.197
190	15.83	0.63	0.219	(0.072)	0.022	0.197
191	15.92	0.63	0.219	(0.072)	0.022	0.197
192	16.00	0.63	0.219	(0.071)	0.022	0.197
193	16.08	0.13	0.046	(0.071)	0.005	0.041
194	16.17	0.13	0.046	(0.071)	0.005	0.041
195	16.25	0.13	0.046	(0.070)	0.005	0.041
196	16.33	0.13	0.046	(0.070)	0.005	0.041
197	16.42	0.13	0.046	(0.069)	0.005	0.041
198	16.50	0.13	0.046	(0.069)	0.005	0.041
199	16.58	0.10	0.035	(0.069)	0.003	0.031
200	16.67	0.10	0.035	(0.068)	0.003	0.031

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.035	(0.068)	0.003	0.031
202	16.83	0.10	0.035	(0.068)	0.003	0.031
203	16.92	0.10	0.035	(0.067)	0.003	0.031
204	17.00	0.10	0.035	(0.067)	0.003	0.031
205	17.08	0.17	0.058	(0.067)	0.006	0.052
206	17.17	0.17	0.058	(0.066)	0.006	0.052
207	17.25	0.17	0.058	(0.066)	0.006	0.052
208	17.33	0.17	0.058	(0.066)	0.006	0.052
209	17.42	0.17	0.058	(0.065)	0.006	0.052
210	17.50	0.17	0.058	(0.065)	0.006	0.052
211	17.58	0.17	0.058	(0.065)	0.006	0.052
212	17.67	0.17	0.058	(0.064)	0.006	0.052
213	17.75	0.17	0.058	(0.064)	0.006	0.052
214	17.83	0.13	0.046	(0.064)	0.005	0.041
215	17.92	0.13	0.046	(0.063)	0.005	0.041
216	18.00	0.13	0.046	(0.063)	0.005	0.041
217	18.08	0.13	0.046	(0.063)	0.005	0.041
218	18.17	0.13	0.046	(0.063)	0.005	0.041
219	18.25	0.13	0.046	(0.062)	0.005	0.041
220	18.33	0.13	0.046	(0.062)	0.005	0.041
221	18.42	0.13	0.046	(0.062)	0.005	0.041
222	18.50	0.13	0.046	(0.061)	0.005	0.041
223	18.58	0.10	0.035	(0.061)	0.003	0.031
224	18.67	0.10	0.035	(0.061)	0.003	0.031
225	18.75	0.10	0.035	(0.060)	0.003	0.031
226	18.83	0.07	0.023	(0.060)	0.002	0.021
227	18.92	0.07	0.023	(0.060)	0.002	0.021
228	19.00	0.07	0.023	(0.060)	0.002	0.021
229	19.08	0.10	0.035	(0.059)	0.003	0.031
230	19.17	0.10	0.035	(0.059)	0.003	0.031
231	19.25	0.10	0.035	(0.059)	0.003	0.031
232	19.33	0.13	0.046	(0.058)	0.005	0.041
233	19.42	0.13	0.046	(0.058)	0.005	0.041
234	19.50	0.13	0.046	(0.058)	0.005	0.041
235	19.58	0.10	0.035	(0.058)	0.003	0.031
236	19.67	0.10	0.035	(0.057)	0.003	0.031
237	19.75	0.10	0.035	(0.057)	0.003	0.031
238	19.83	0.07	0.023	(0.057)	0.002	0.021
239	19.92	0.07	0.023	(0.057)	0.002	0.021
240	20.00	0.07	0.023	(0.056)	0.002	0.021
241	20.08	0.10	0.035	(0.056)	0.003	0.031
242	20.17	0.10	0.035	(0.056)	0.003	0.031
243	20.25	0.10	0.035	(0.056)	0.003	0.031
244	20.33	0.10	0.035	(0.055)	0.003	0.031
245	20.42	0.10	0.035	(0.055)	0.003	0.031
246	20.50	0.10	0.035	(0.055)	0.003	0.031
247	20.58	0.10	0.035	(0.055)	0.003	0.031
248	20.67	0.10	0.035	(0.054)	0.003	0.031
249	20.75	0.10	0.035	(0.054)	0.003	0.031
250	20.83	0.07	0.023	(0.054)	0.002	0.021
251	20.92	0.07	0.023	(0.054)	0.002	0.021
252	21.00	0.07	0.023	(0.054)	0.002	0.021
253	21.08	0.10	0.035	(0.053)	0.003	0.031
254	21.17	0.10	0.035	(0.053)	0.003	0.031
255	21.25	0.10	0.035	(0.053)	0.003	0.031
256	21.33	0.07	0.023	(0.053)	0.002	0.021
257	21.42	0.07	0.023	(0.053)	0.002	0.021
258	21.50	0.07	0.023	(0.052)	0.002	0.021
259	21.58	0.10	0.035	(0.052)	0.003	0.031
260	21.67	0.10	0.035	(0.052)	0.003	0.031
261	21.75	0.10	0.035	(0.052)	0.003	0.031
262	21.83	0.07	0.023	(0.052)	0.002	0.021
263	21.92	0.07	0.023	(0.051)	0.002	0.021
264	22.00	0.07	0.023	(0.051)	0.002	0.021
265	22.08	0.10	0.035	(0.051)	0.003	0.031
266	22.17	0.10	0.035	(0.051)	0.003	0.031
267	22.25	0.10	0.035	(0.051)	0.003	0.031
268	22.33	0.07	0.023	(0.051)	0.002	0.021
269	22.42	0.07	0.023	(0.050)	0.002	0.021
270	22.50	0.07	0.023	(0.050)	0.002	0.021
271	22.58	0.07	0.023	(0.050)	0.002	0.021
272	22.67	0.07	0.023	(0.050)	0.002	0.021
273	22.75	0.07	0.023	(0.050)	0.002	0.021
274	22.83	0.07	0.023	(0.050)	0.002	0.021
275	22.92	0.07	0.023	(0.050)	0.002	0.021
276	23.00	0.07	0.023	(0.049)	0.002	0.021
277	23.08	0.07	0.023	(0.049)	0.002	0.021

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.023	(	0.049)	0.002	0.021
279	23.25	0.07	0.023	(	0.049)	0.002	0.021
280	23.33	0.07	0.023	(	0.049)	0.002	0.021
281	23.42	0.07	0.023	(	0.049)	0.002	0.021
282	23.50	0.07	0.023	(	0.049)	0.002	0.021
283	23.58	0.07	0.023	(	0.049)	0.002	0.021
284	23.67	0.07	0.023	(	0.049)	0.002	0.021
285	23.75	0.07	0.023	(	0.049)	0.002	0.021
286	23.83	0.07	0.023	(	0.049)	0.002	0.021
287	23.92	0.07	0.023	(	0.049)	0.002	0.021
288	24.00	0.07	0.023	(	0.049)	0.002	0.021

(Loss Rate Not Used)

Sum = 100.0 Sum = 31.1

Flood volume = Effective rainfall 2.59(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 14.5(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.611(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 631559.3 Cubic Feet
Total soil loss = 70173.3 Cubic Feet

Peak flow rate of this hydrograph = 23.765(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0020	0.29	Q				
0+10	0.0087	0.97	VQ				
0+15	0.0168	1.18	VQ				
0+20	0.0266	1.42	VQ				
0+25	0.0392	1.82	V Q				
0+30	0.0526	1.96	V Q				
0+35	0.0666	2.03	V Q				
0+40	0.0808	2.07	V Q				
0+45	0.0952	2.09	V Q				
0+50	0.1106	2.24	V Q				
0+55	0.1285	2.59	V Q				
1+ 0	0.1471	2.70	V Q				
1+ 5	0.1650	2.60	V Q				
1+10	0.1807	2.28	V Q				
1+15	0.1958	2.20	V Q				
1+20	0.2107	2.16	V Q				
1+25	0.2255	2.14	V Q				
1+30	0.2401	2.12	V Q				
1+35	0.2546	2.11	V Q				
1+40	0.2691	2.11	V Q				
1+45	0.2836	2.11	V Q				
1+50	0.2991	2.25	V Q				
1+55	0.3170	2.59	V Q				
2+ 0	0.3355	2.70	V Q				
2+ 5	0.3544	2.74	V Q				
2+10	0.3735	2.77	|V Q				
2+15	0.3927	2.79	|V Q				
2+20	0.4120	2.80	|V Q				
2+25	0.4313	2.81	|V Q				
2+30	0.4507	2.81	|V Q				
2+35	0.4710	2.95	|V Q				
2+40	0.4937	3.29	|V Q				
2+45	0.5171	3.40	|V Q				
2+50	0.5408	3.45	|V Q				
2+55	0.5647	3.47	|V Q				
3+ 0	0.5888	3.49	|V Q				
3+ 5	0.6129	3.50	|V Q				
3+10	0.6370	3.51	|V Q				
3+15	0.6612	3.51	|V Q				
3+20	0.6854	3.51	|V Q				
3+25	0.7095	3.51	|V Q				
3+30	0.7337	3.51	| V Q				
3+35	0.7579	3.51	| V Q				
3+40	0.7820	3.51	| V Q				
3+45	0.8062	3.51	| V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	0.8313	3.65	V Q				
3+55	0.8589	3.99	V Q				
4+ 0	0.8871	4.10	V Q				
4+ 5	0.9157	4.15	V Q				
4+10	0.9444	4.17	V Q				
4+15	0.9733	4.19	V Q				
4+20	1.0032	4.35	V Q				
4+25	1.0356	4.70	V Q				
4+30	1.0686	4.80	V Q				
4+35	1.1020	4.85	V Q				
4+40	1.1356	4.88	V Q				
4+45	1.1693	4.89	V Q				
4+50	1.2041	5.05	V Q				
4+55	1.2413	5.40	V Q				
5+ 0	1.2792	5.50	V Q				
5+ 5	1.3154	5.26	V Q				
5+10	1.3471	4.61	V Q				
5+15	1.3775	4.41	V Q				
5+20	1.4083	4.47	V Q				
5+25	1.4412	4.77	V Q				
5+30	1.4745	4.84	V Q				
5+35	1.5090	5.01	V Q				
5+40	1.5459	5.36	V Q				
5+45	1.5837	5.48	V Q				
5+50	1.6219	5.54	V Q				
5+55	1.6603	5.58	V Q				
6+ 0	1.6988	5.60	V Q				
6+ 5	1.7384	5.75	V Q				
6+10	1.7804	6.10	V Q				
6+15	1.8232	6.21	V Q				
6+20	1.8662	6.25	V Q				
6+25	1.9095	6.28	V Q				
6+30	1.9529	6.30	V Q				
6+35	1.9973	6.45	V Q				
6+40	2.0441	6.80	V Q				
6+45	2.0917	6.91	V Q				
6+50	2.1396	6.95	V Q				
6+55	2.1877	6.98	V Q				
7+ 0	2.2359	7.00	V Q				
7+ 5	2.2841	7.01	V Q				
7+10	2.3325	7.02	V Q				
7+15	2.3808	7.02	V Q				
7+20	2.4301	7.16	V Q				
7+25	2.4818	7.50	V Q				
7+30	2.5342	7.61	V Q				
7+35	2.5879	7.80	V Q				
7+40	2.6442	8.17	V Q				
7+45	2.7013	8.29	V Q				
7+50	2.7598	8.49	V Q				
7+55	2.8209	8.87	V Q				
8+ 0	2.8828	8.99	V Q				
8+ 5	2.9472	9.34	V Q				
8+10	3.0164	10.06	V Q				
8+15	3.0873	10.29	V Q				
8+20	3.1589	10.39	V Q				
8+25	3.2309	10.45	V Q				
8+30	3.3031	10.49	V Q				
8+35	3.3765	10.65	V Q				
8+40	3.4523	11.01	V Q				
8+45	3.5289	11.12	V Q				
8+50	3.6068	11.31	V Q				
8+55	3.6872	11.68	V Q				
9+ 0	3.7685	11.80	V Q				
9+ 5	3.8521	12.15	V Q				
9+10	3.9407	12.87	V Q				
9+15	4.0309	13.09	V Q				
9+20	4.1228	13.34	V Q				
9+25	4.2175	13.75	V Q				
9+30	4.3131	13.89	V Q				
9+35	4.4102	14.10	V Q				
9+40	4.5100	14.49	V Q				
9+45	4.6106	14.61	V Q				
9+50	4.7126	14.81	V Q				
9+55	4.8172	15.19	V Q				
10+ 0	4.9226	15.31	V Q				
10+ 5	5.0215	14.35	V Q				
10+10	5.1041	12.00	VQ				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

10+15	5.1818	11.28	|	VQ	|	|	|
10+20	5.2573	10.96	|	Q	|	|	|
10+25	5.3315	10.78	|	Q	|	|	|
10+30	5.4049	10.66	|	Q	|	|	|
10+35	5.4828	11.31	|	Q	|	|	|
10+40	5.5720	12.96	|	V Q	|	|	|
10+45	5.6648	13.48	|	V Q	|	|	|
10+50	5.7594	13.72	|	V Q	|	|	|
10+55	5.8548	13.86	|	V Q	|	|	|
11+ 0	5.9508	13.94	|	V Q	|	|	|
11+ 5	6.0462	13.85	|	V Q	|	|	|
11+10	6.1395	13.55	|	V Q	|	|	|
11+15	6.2320	13.44	|	Q	|	|	|
11+20	6.3243	13.40	|	Q	|	|	|
11+25	6.4164	13.37	|	Q	|	|	|
11+30	6.5083	13.35	|	Q	|	|	|
11+35	6.5982	13.05	|	QV	|	|	|
11+40	6.6833	12.36	|	Q V	|	|	|
11+45	6.7670	12.15	|	Q V	|	|	|
11+50	6.8510	12.20	|	Q V	|	|	|
11+55	6.9370	12.49	|	Q V	|	|	|
12+ 0	7.0235	12.56	|	Q V	|	|	|
12+ 5	7.1172	13.60	|	QV	|	|	|
12+10	7.2274	16.00	|	V|Q	|	|	|
12+15	7.3427	16.75	|	V Q	|	|	|
12+20	7.4615	17.24	|	V Q	|	|	|
12+25	7.5839	17.78	|	V Q	|	|	|
12+30	7.7079	18.00	|	|V Q	|	|	|
12+35	7.8347	18.41	|	|V Q	|	|	|
12+40	7.9668	19.18	|	|V Q	|	|	|
12+45	8.1005	19.41	|	| V Q	|	|	|
12+50	8.2359	19.66	|	| V Q	|	|	|
12+55	8.3741	20.06	|	| V Q	|	|	|
13+ 0	8.5132	20.20	|	| V Q	|	|	|
13+ 5	8.6578	20.99	|	| V Q	|	|	|
13+10	8.8144	22.75	|	| V	Q	|	|
13+15	8.9748	23.29	|	| V	|Q	|	|
13+20	9.1369	23.54	|	| V	|Q	|	|
13+25	9.3000	23.68	|	| V	|Q	|	|
13+30	9.4637	23.77	|	| V	|Q	|	|
13+35	9.6168	22.23	|	| V	Q|	|	|
13+40	9.7442	18.51	|	| Q V	|	|	|
13+45	9.8638	17.35	|	| Q V	|	|	|
13+50	9.9797	16.83	|	| Q V	|	|	|
13+55	10.0935	16.53	|	| Q V	|	|	|
14+ 0	10.2061	16.35	|	|Q V	|	|	|
14+ 5	10.3219	16.81	|	| Q V	|	|	|
14+10	10.4464	18.08	|	| Q V	|	|	|
14+15	10.5739	18.51	|	| Q V	|	|	|
14+20	10.7017	18.55	|	| Q V	|	|	|
14+25	10.8278	18.32	|	| Q V	|	|	|
14+30	10.9537	18.28	|	| Q V	|	|	|
14+35	11.0796	18.27	|	| Q V	|	|	|
14+40	11.2055	18.28	|	| Q V	|	|	|
14+45	11.3312	18.26	|	| Q |V	|	|	|
14+50	11.4560	18.11	|	| Q |V	|	|	|
14+55	11.5783	17.76	|	| Q |V	|	|	|
15+ 0	11.6998	17.65	|	| Q | V	|	|	|
15+ 5	11.8201	17.46	|	| Q | V	|	|	|
15+10	11.9378	17.09	|	| Q | V	|	|	|
15+15	12.0547	16.97	|	| Q | V	|	|	|
15+20	12.1702	16.77	|	| Q | V	|	|	|
15+25	12.2831	16.39	|	|Q | V	|	|	|
15+30	12.3951	16.27	|	|Q | V	|	|	|
15+35	12.5028	15.63	|	Q | V	|	|	|
15+40	12.6008	14.23	|	Q | V	|	|	|
15+45	12.6958	13.79	|	Q | V	|	|	|
15+50	12.7894	13.59	|	Q | V	|	|	|
15+55	12.8822	13.48	|	Q | V	|	|	|
16+ 0	12.9745	13.41	|	Q | V	|	|	|
16+ 5	13.0516	11.20	|	Q | V	|	|	|
16+10	13.0932	6.04	|	Q | V	|	|	|
16+15	13.1240	4.46	|	Q | V	|	|	|
16+20	13.1498	3.74	|	Q | V	|	|	|
16+25	13.1728	3.34	|	Q | V	|	|	|
16+30	13.1941	3.09	|	Q | V	|	|	|
16+35	13.2133	2.79	|	Q | V	|	|	|

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	13.2293	2.32	Q				V
16+45	13.2445	2.22	Q				V
16+50	13.2595	2.17	Q				V
16+55	13.2742	2.14	Q				V
17+ 0	13.2888	2.12	Q				V
17+ 5	13.3054	2.40	Q				V
17+10	13.3266	3.08	Q				V
17+15	13.3492	3.29	Q				V
17+20	13.3725	3.38	Q				V
17+25	13.3962	3.44	Q				V
17+30	13.4201	3.47	Q				V
17+35	13.4441	3.49	Q				V
17+40	13.4683	3.51	Q				V
17+45	13.4925	3.51	Q				V
17+50	13.5156	3.36	Q				V
17+55	13.5365	3.02	Q				V
18+ 0	13.5565	2.92	Q				V
18+ 5	13.5763	2.87	Q				V
18+10	13.5959	2.84	Q				V
18+15	13.6153	2.83	Q				V
18+20	13.6347	2.82	Q				V
18+25	13.6541	2.81	Q				V
18+30	13.6734	2.81	Q				V
18+35	13.6917	2.66	Q				V
18+40	13.7077	2.32	Q				V
18+45	13.7230	2.22	Q				V
18+50	13.7369	2.02	Q				V
18+55	13.7483	1.65	Q				V
19+ 0	13.7589	1.53	Q				V
19+ 5	13.7700	1.62	Q				V
19+10	13.7833	1.93	Q				V
19+15	13.7971	2.01	Q				V
19+20	13.8123	2.20	Q				V
19+25	13.8299	2.56	Q				V
19+30	13.8483	2.68	Q				V
19+35	13.8662	2.59	Q				V
19+40	13.8819	2.28	Q				V
19+45	13.8970	2.20	Q				V
19+50	13.9109	2.01	Q				V
19+55	13.9223	1.65	Q				V
20+ 0	13.9328	1.53	Q				V
20+ 5	13.9440	1.62	Q				V
20+10	13.9573	1.93	Q				V
20+15	13.9711	2.01	Q				V
20+20	13.9852	2.05	Q				V
20+25	13.9995	2.07	Q				V
20+30	14.0139	2.09	Q				V
20+35	14.0283	2.10	Q				V
20+40	14.0428	2.11	Q				V
20+45	14.0573	2.11	Q				V
20+50	14.0708	1.96	Q				V
20+55	14.0820	1.62	Q				V
21+ 0	14.0924	1.51	Q				V
21+ 5	14.1035	1.61	Q				V
21+10	14.1167	1.93	Q				V
21+15	14.1306	2.01	Q				V
21+20	14.1437	1.91	Q				V
21+25	14.1546	1.58	Q				V
21+30	14.1649	1.50	Q				V
21+35	14.1760	1.60	Q				V
21+40	14.1892	1.93	Q				V
21+45	14.2031	2.01	Q				V
21+50	14.2162	1.91	Q				V
21+55	14.2271	1.58	Q				V
22+ 0	14.2374	1.50	Q				V
22+ 5	14.2485	1.60	Q				V
22+10	14.2617	1.93	Q				V
22+15	14.2756	2.01	Q				V
22+20	14.2887	1.91	Q				V
22+25	14.2996	1.58	Q				V
22+30	14.3099	1.50	Q				V
22+35	14.3200	1.46	Q				V
22+40	14.3299	1.44	Q				V
22+45	14.3397	1.42	Q				V
22+50	14.3494	1.41	Q				V
22+55	14.3591	1.40	Q				V
23+ 0	14.3687	1.40	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
   23+ 5      14.3784      1.40  |Q        |         |         |        V|
   23+10      14.3881      1.40  |Q        |         |         |        V|
   23+15      14.3977      1.40  |Q        |         |         |        V|
   23+20      14.4074      1.40  |Q        |         |         |        V|
   23+25      14.4171      1.40  |Q        |         |         |        V|
   23+30      14.4267      1.40  |Q        |         |         |        V|
   23+35      14.4364      1.40  |Q        |         |         |        V|
   23+40      14.4461      1.40  |Q        |         |         |        V|
   23+45      14.4557      1.40  |Q        |         |         |        V|
   23+50      14.4654      1.40  |Q        |         |         |        V|
   23+55      14.4750      1.40  |Q        |         |         |        V|
   24+ 0      14.4847      1.40  |Q        |         |         |        V|
   24+ 5      14.4924      1.11  |Q        |         |         |        V|
   24+10      14.4954      0.43  Q         |         |         |        V|
   24+15      14.4969      0.22  Q         |         |         |        V|
   24+20      14.4977      0.13  Q         |         |         |        V|
   24+25      14.4982      0.07  Q         |         |         |        V|
   24+30      14.4985      0.04  Q         |         |         |        V|
   24+35      14.4986      0.02  Q         |         |         |         V
-------------------------------------------------------------------------
```


Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1001100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1001100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.058	(0.060)	0.546
2	0.17	4.30	0.619	0.058	(0.062)	0.561
3	0.25	5.00	0.720	0.058	(0.072)	0.662
4	0.33	5.00	0.720	0.058	(0.072)	0.662
5	0.42	5.80	0.835	0.058	(0.083)	0.777
6	0.50	6.50	0.935	0.058	(0.094)	0.877
7	0.58	7.40	1.065	0.058	(0.106)	1.007
8	0.67	8.60	1.238	0.058	(0.124)	1.180
9	0.75	12.30	1.770	0.058	(0.177)	1.712
10	0.83	29.10	4.188	0.058	(0.419)	4.130
11	0.92	6.80	0.979	0.058	(0.098)	0.921
12	1.00	5.00	0.720	0.058	(0.072)	0.662
		(Loss Rate Not Used)			
Sum =		100.0		Sum =	13.7

Flood volume = Effective rainfall 1.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.324(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 277978.1 Cubic Feet
Total soil loss = 14131.7 Cubic Feet

Peak flow rate of this hydrograph = 176.999(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0525	7.62	VQ				
0+10	0.2303	25.82	V Q				
0+15	0.4592	33.23	V Q				
0+20	0.7293	39.22	V Q				
0+25	1.0276	43.32	V Q				
0+30	1.3714	49.92	VQ				
0+35	1.7642	57.03	Q				
0+40	2.2179	65.89	Q				
0+45	2.7771	81.18	QV				
0+50	3.7090	135.32	V Q				
0+55	4.9280	177.00	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR1001100
    1+ 0       5.5857     95.50  |         |         Q|         |    V    |
    1+ 5       5.9868     58.24  |         |Q        |         |      V  |
    1+10       6.1686     26.39  |    Q    |         |         |       V |
    1+15       6.2711     14.88  | Q       |         |         |        V|
    1+20       6.3310      8.71  |Q        |         |         |        V|
    1+25       6.3681      5.38  |Q        |         |         |        V|
    1+30       6.3778      1.41  Q         |         |         |        V|
    1+35       6.3815      0.54  Q         |         |         |         V
-------------------------------------------------------------------------
```

3828PR1003100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1003100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.290	(0.058)	0.029	0.261
2	0.17	1.30	0.290	(0.058)	0.029	0.261
3	0.25	1.10	0.245	(0.058)	0.025	0.221
4	0.33	1.50	0.335	(0.058)	0.033	0.301
5	0.42	1.50	0.335	(0.058)	0.033	0.301
6	0.50	1.80	0.402	(0.058)	0.040	0.361
7	0.58	1.50	0.335	(0.058)	0.033	0.301
8	0.67	1.80	0.402	(0.058)	0.040	0.361
9	0.75	1.80	0.402	(0.058)	0.040	0.361
10	0.83	1.50	0.335	(0.058)	0.033	0.301
11	0.92	1.60	0.357	(0.058)	0.036	0.321
12	1.00	1.80	0.402	(0.058)	0.040	0.361
13	1.08	2.20	0.491	(0.058)	0.049	0.442
14	1.17	2.20	0.491	(0.058)	0.049	0.442
15	1.25	2.20	0.491	(0.058)	0.049	0.442
16	1.33	2.00	0.446	(0.058)	0.045	0.402
17	1.42	2.60	0.580	(0.058)	0.058	0.522
18	1.50	2.70	0.602	0.058	(0.060)	0.544
19	1.58	2.40	0.536	(0.058)	0.054	0.482
20	1.67	2.70	0.602	0.058	(0.060)	0.544
21	1.75	3.30	0.736	0.058	(0.074)	0.678
22	1.83	3.10	0.692	0.058	(0.069)	0.634
23	1.92	2.90	0.647	0.058	(0.065)	0.589
24	2.00	3.00	0.669	0.058	(0.067)	0.611
25	2.08	3.10	0.692	0.058	(0.069)	0.634
26	2.17	4.20	0.937	0.058	(0.094)	0.879
27	2.25	5.00	1.116	0.058	(0.112)	1.058
28	2.33	3.50	0.781	0.058	(0.078)	0.723
29	2.42	6.80	1.517	0.058	(0.152)	1.459
30	2.50	7.30	1.629	0.058	(0.163)	1.571
31	2.58	8.20	1.830	0.058	(0.183)	1.772
32	2.67	5.90	1.316	0.058	(0.132)	1.258
33	2.75	2.00	0.446	(0.058)	0.045	0.402
34	2.83	1.80	0.402	(0.058)	0.040	0.361
35	2.92	1.80	0.402	(0.058)	0.040	0.361
36	3.00	0.60	0.134	(0.058)	0.013	0.120
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	20.6

Flood volume = Effective rainfall 1.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.6(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.777(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 419079.2 Cubic Feet
Total soil loss = 33833.6 Cubic Feet

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1003100

Peak flow rate of this hydrograph = 103.548(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 50.0 100.0 150.0 200.0
0+ 5	0.0251	3.64	Q
0+10	0.1094	12.24	V Q
0+15	0.2080	14.32	V Q
0+20	0.3136	15.33	V Q
0+25	0.4392	18.24	V Q
0+30	0.5779	20.14	V Q
0+35	0.7280	21.81	VQ
0+40	0.8770	21.63	VQ
0+45	1.0380	23.37	Q
0+50	1.1968	23.07	Q
0+55	1.3459	21.65	QV
1+ 0	1.5000	22.38	Q V
1+ 5	1.6710	24.83	Q V
1+10	1.8627	27.83	Q V
1+15	2.0613	28.83	Q V
1+20	2.2591	28.72	Q V
1+25	2.4611	29.32	Q V
1+30	2.6910	33.38	Q V
1+35	2.9279	34.40	Q V
1+40	3.1617	33.95	Q V
1+45	3.4206	37.59	Q V
1+50	3.7095	41.94	Q V
1+55	3.9950	41.46	Q V
2+ 0	4.2749	40.64	Q V
2+ 5	4.5602	41.43	Q V
2+10	4.8751	45.73	Q V
2+15	5.2651	56.63	Q V
2+20	5.6816	60.48	Q V
2+25	6.1133	62.68	Q V
2+30	6.7095	86.57	Q V
2+35	7.3973	99.87	Q V
2+40	8.1105	103.55	Q V
2+45	8.6543	78.97	Q V
2+50	8.9795	47.23	Q V
2+55	9.2275	36.01	Q V
3+ 0	9.4204	28.01	Q V
3+ 5	9.5268	15.45	Q V
3+10	9.5762	7.18	Q V
3+15	9.6004	3.51	Q V
3+20	9.6113	1.59	Q V
3+25	9.6172	0.85	Q V
3+30	9.6201	0.42	Q V
3+35	9.6207	0.10	Q V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1006100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1006100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.058)	0.015	0.135
2	0.17	0.60	0.180	(0.058)	0.018	0.162
3	0.25	0.60	0.180	(0.058)	0.018	0.162
4	0.33	0.60	0.180	(0.058)	0.018	0.162
5	0.42	0.60	0.180	(0.058)	0.018	0.162
6	0.50	0.70	0.210	(0.058)	0.021	0.189
7	0.58	0.70	0.210	(0.058)	0.021	0.189
8	0.67	0.70	0.210	(0.058)	0.021	0.189
9	0.75	0.70	0.210	(0.058)	0.021	0.189
10	0.83	0.70	0.210	(0.058)	0.021	0.189
11	0.92	0.70	0.210	(0.058)	0.021	0.189
12	1.00	0.80	0.240	(0.058)	0.024	0.216
13	1.08	0.80	0.240	(0.058)	0.024	0.216
14	1.17	0.80	0.240	(0.058)	0.024	0.216
15	1.25	0.80	0.240	(0.058)	0.024	0.216
16	1.33	0.80	0.240	(0.058)	0.024	0.216
17	1.42	0.80	0.240	(0.058)	0.024	0.216
18	1.50	0.80	0.240	(0.058)	0.024	0.216
19	1.58	0.80	0.240	(0.058)	0.024	0.216
20	1.67	0.80	0.240	(0.058)	0.024	0.216
21	1.75	0.80	0.240	(0.058)	0.024	0.216
22	1.83	0.80	0.240	(0.058)	0.024	0.216
23	1.92	0.80	0.240	(0.058)	0.024	0.216
24	2.00	0.90	0.270	(0.058)	0.027	0.243
25	2.08	0.80	0.240	(0.058)	0.024	0.216
26	2.17	0.90	0.270	(0.058)	0.027	0.243
27	2.25	0.90	0.270	(0.058)	0.027	0.243
28	2.33	0.90	0.270	(0.058)	0.027	0.243
29	2.42	0.90	0.270	(0.058)	0.027	0.243
30	2.50	0.90	0.270	(0.058)	0.027	0.243
31	2.58	0.90	0.270	(0.058)	0.027	0.243
32	2.67	0.90	0.270	(0.058)	0.027	0.243
33	2.75	1.00	0.300	(0.058)	0.030	0.270
34	2.83	1.00	0.300	(0.058)	0.030	0.270
35	2.92	1.00	0.300	(0.058)	0.030	0.270
36	3.00	1.00	0.300	(0.058)	0.030	0.270
37	3.08	1.00	0.300	(0.058)	0.030	0.270
38	3.17	1.10	0.330	(0.058)	0.033	0.297
39	3.25	1.10	0.330	(0.058)	0.033	0.297
40	3.33	1.10	0.330	(0.058)	0.033	0.297
41	3.42	1.20	0.360	(0.058)	0.036	0.324
42	3.50	1.30	0.390	(0.058)	0.039	0.351
43	3.58	1.40	0.420	(0.058)	0.042	0.378
44	3.67	1.40	0.420	(0.058)	0.042	0.378
45	3.75	1.50	0.450	(0.058)	0.045	0.405
46	3.83	1.50	0.450	(0.058)	0.045	0.405

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.480	(0.058)	0.048	0.432
48	4.00	1.60	0.480	(0.058)	0.048	0.432
49	4.08	1.70	0.510	(0.058)	0.051	0.459
50	4.17	1.80	0.540	(0.058)	0.054	0.486
51	4.25	1.90	0.570	(0.058)	0.057	0.513
52	4.33	2.00	0.600	0.058	(0.060)	0.542
53	4.42	2.10	0.630	0.058	(0.063)	0.572
54	4.50	2.10	0.630	0.058	(0.063)	0.572
55	4.58	2.20	0.660	0.058	(0.066)	0.602
56	4.67	2.30	0.690	0.058	(0.069)	0.632
57	4.75	2.40	0.720	0.058	(0.072)	0.662
58	4.83	2.40	0.720	0.058	(0.072)	0.662
59	4.92	2.50	0.750	0.058	(0.075)	0.692
60	5.00	2.60	0.780	0.058	(0.078)	0.722
61	5.08	3.10	0.930	0.058	(0.093)	0.872
62	5.17	3.60	1.080	0.058	(0.108)	1.022
63	5.25	3.90	1.170	0.058	(0.117)	1.112
64	5.33	4.20	1.260	0.058	(0.126)	1.202
65	5.42	4.70	1.410	0.058	(0.141)	1.352
66	5.50	5.60	1.680	0.058	(0.168)	1.622
67	5.58	1.90	0.570	(0.058)	0.057	0.513
68	5.67	0.90	0.270	(0.058)	0.027	0.243
69	5.75	0.60	0.180	(0.058)	0.018	0.162
70	5.83	0.50	0.150	(0.058)	0.015	0.135
71	5.92	0.30	0.090	(0.058)	0.009	0.081
72	6.00	0.20	0.060	(0.058)	0.006	0.054

(Loss Rate Not Used)

Sum = 100.0 Sum = 27.5

Flood volume = Effective rainfall 2.29(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.8(Ac.Ft)
Total soil loss = 0.21(In)
Total soil loss = 1.164(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 558070.0 Cubic Feet
Total soil loss = 50722.1 Cubic Feet

Peak flow rate of this hydrograph = 89.787(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0130	1.88	Q				
0+10	0.0591	6.70	V Q				
0+15	0.1208	8.96	V Q				
0+20	0.1887	9.86	V Q				
0+25	0.2599	10.33	V Q				
0+30	0.3356	11.00	V Q				
0+35	0.4187	12.06	V Q				
0+40	0.5046	12.48	V Q				
0+45	0.5915	12.62	V Q				
0+50	0.6790	12.69	V Q				
0+55	0.7667	12.74	V Q				
1+ 0	0.8572	13.14	V Q				
1+ 5	0.9539	14.05	V Q				
1+10	1.0526	14.32	V Q				
1+15	1.1521	14.45	V Q				
1+20	1.2521	14.52	V Q				
1+25	1.3524	14.56	V Q				
1+30	1.4528	14.59	V Q				
1+35	1.5535	14.61	V Q				
1+40	1.6541	14.61	VQ				
1+45	1.7547	14.61	VQ				
1+50	1.8553	14.61	VQ				
1+55	1.9560	14.61	Q				
2+ 0	2.0592	14.99	Q				
2+ 5	2.1659	15.50	Q				
2+10	2.2710	15.26	QV				
2+15	2.3812	16.00	Q				
2+20	2.4929	16.22	Q				
2+25	2.6053	16.32	QV				
2+30	2.7181	16.37	QV				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1006100

2+35	2.8311	16.41	QV
2+40	2.9441	16.42	Q V
2+45	3.0599	16.81	Q V
2+50	3.1819	17.70	Q V
2+55	3.3057	17.98	Q V
3+ 0	3.4303	18.10	Q V
3+ 5	3.5555	18.17	Q V
3+10	3.6835	18.59	Q V
3+15	3.8179	19.51	Q V
3+20	3.9542	19.80	Q V
3+25	4.0941	20.30	Q V
3+30	4.2431	21.64	Q V
3+35	4.4030	23.22	Q V
3+40	4.5720	24.54	Q V
3+45	4.7470	25.40	Q V
3+50	4.9297	26.53	Q V
3+55	5.1178	27.32	Q V
4+ 0	5.3136	28.43	Q V
4+ 5	5.5147	29.20	Q V
4+10	5.7258	30.65	Q V
4+15	5.9482	32.29	Q V
4+20	6.1826	34.05	Q V
4+25	6.4300	35.91	Q V
4+30	6.6879	37.45	Q V
4+35	6.9527	38.45	Q V
4+40	7.2293	40.16	Q V
4+45	7.5189	42.05	Q V
4+50	7.8190	43.58	Q V
4+55	8.1260	44.57	Q V
5+ 0	8.4446	46.26	Q V
5+ 5	8.7876	49.80	Q V
5+10	9.1828	57.38	Q V
5+15	9.6329	65.36	QV
5+20	10.1284	71.94	Q
5+25	10.6730	79.07	V Q
5+30	11.2913	89.79	V Q
5+35	11.8822	85.80	VQ
5+40	12.2238	49.60	Q V
5+45	12.4328	30.34	Q V
5+50	12.5742	20.54	Q V
5+55	12.6751	14.65	Q V
6+ 0	12.7420	9.72	Q V
6+ 5	12.7825	5.87	Q V
6+10	12.7976	2.19	Q V
6+15	12.8048	1.04	Q V
6+20	12.8085	0.54	Q V
6+25	12.8104	0.28	Q V
6+30	12.8112	0.12	Q V
6+35	12.8115	0.04	Q V

3828PR10024100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10024100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.103)	0.004	0.032
2	0.17	0.07	0.036	(0.102)	0.004	0.032
3	0.25	0.07	0.036	(0.102)	0.004	0.032
4	0.33	0.10	0.054	(0.102)	0.005	0.049
5	0.42	0.10	0.054	(0.101)	0.005	0.049
6	0.50	0.10	0.054	(0.101)	0.005	0.049
7	0.58	0.10	0.054	(0.100)	0.005	0.049
8	0.67	0.10	0.054	(0.100)	0.005	0.049
9	0.75	0.10	0.054	(0.100)	0.005	0.049
10	0.83	0.13	0.072	(0.099)	0.007	0.065
11	0.92	0.13	0.072	(0.099)	0.007	0.065
12	1.00	0.13	0.072	(0.099)	0.007	0.065
13	1.08	0.10	0.054	(0.098)	0.005	0.049
14	1.17	0.10	0.054	(0.098)	0.005	0.049
15	1.25	0.10	0.054	(0.097)	0.005	0.049
16	1.33	0.10	0.054	(0.097)	0.005	0.049
17	1.42	0.10	0.054	(0.097)	0.005	0.049
18	1.50	0.10	0.054	(0.096)	0.005	0.049
19	1.58	0.10	0.054	(0.096)	0.005	0.049
20	1.67	0.10	0.054	(0.095)	0.005	0.049
21	1.75	0.10	0.054	(0.095)	0.005	0.049
22	1.83	0.13	0.072	(0.095)	0.007	0.065
23	1.92	0.13	0.072	(0.094)	0.007	0.065
24	2.00	0.13	0.072	(0.094)	0.007	0.065
25	2.08	0.13	0.072	(0.094)	0.007	0.065
26	2.17	0.13	0.072	(0.093)	0.007	0.065
27	2.25	0.13	0.072	(0.093)	0.007	0.065
28	2.33	0.13	0.072	(0.092)	0.007	0.065
29	2.42	0.13	0.072	(0.092)	0.007	0.065
30	2.50	0.13	0.072	(0.092)	0.007	0.065
31	2.58	0.17	0.090	(0.091)	0.009	0.081
32	2.67	0.17	0.090	(0.091)	0.009	0.081
33	2.75	0.17	0.090	(0.091)	0.009	0.081
34	2.83	0.17	0.090	(0.090)	0.009	0.081
35	2.92	0.17	0.090	(0.090)	0.009	0.081
36	3.00	0.17	0.090	(0.089)	0.009	0.081
37	3.08	0.17	0.090	(0.089)	0.009	0.081
38	3.17	0.17	0.090	(0.089)	0.009	0.081
39	3.25	0.17	0.090	(0.088)	0.009	0.081
40	3.33	0.17	0.090	(0.088)	0.009	0.081
41	3.42	0.17	0.090	(0.088)	0.009	0.081
42	3.50	0.17	0.090	(0.087)	0.009	0.081
43	3.58	0.17	0.090	(0.087)	0.009	0.081
44	3.67	0.17	0.090	(0.086)	0.009	0.081
45	3.75	0.17	0.090	(0.086)	0.009	0.081
46	3.83	0.20	0.108	(0.086)	0.011	0.097

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.108	(0.085)	0.011	0.097
48	4.00	0.20	0.108	(0.085)	0.011	0.097
49	4.08	0.20	0.108	(0.085)	0.011	0.097
50	4.17	0.20	0.108	(0.084)	0.011	0.097
51	4.25	0.20	0.108	(0.084)	0.011	0.097
52	4.33	0.23	0.126	(0.084)	0.013	0.113
53	4.42	0.23	0.126	(0.083)	0.013	0.113
54	4.50	0.23	0.126	(0.083)	0.013	0.113
55	4.58	0.23	0.126	(0.082)	0.013	0.113
56	4.67	0.23	0.126	(0.082)	0.013	0.113
57	4.75	0.23	0.126	(0.082)	0.013	0.113
58	4.83	0.27	0.144	(0.081)	0.014	0.130
59	4.92	0.27	0.144	(0.081)	0.014	0.130
60	5.00	0.27	0.144	(0.081)	0.014	0.130
61	5.08	0.20	0.108	(0.080)	0.011	0.097
62	5.17	0.20	0.108	(0.080)	0.011	0.097
63	5.25	0.20	0.108	(0.080)	0.011	0.097
64	5.33	0.23	0.126	(0.079)	0.013	0.113
65	5.42	0.23	0.126	(0.079)	0.013	0.113
66	5.50	0.23	0.126	(0.079)	0.013	0.113
67	5.58	0.27	0.144	(0.078)	0.014	0.130
68	5.67	0.27	0.144	(0.078)	0.014	0.130
69	5.75	0.27	0.144	(0.078)	0.014	0.130
70	5.83	0.27	0.144	(0.077)	0.014	0.130
71	5.92	0.27	0.144	(0.077)	0.014	0.130
72	6.00	0.27	0.144	(0.077)	0.014	0.130
73	6.08	0.30	0.162	(0.076)	0.016	0.146
74	6.17	0.30	0.162	(0.076)	0.016	0.146
75	6.25	0.30	0.162	(0.076)	0.016	0.146
76	6.33	0.30	0.162	(0.075)	0.016	0.146
77	6.42	0.30	0.162	(0.075)	0.016	0.146
78	6.50	0.30	0.162	(0.075)	0.016	0.146
79	6.58	0.33	0.180	(0.074)	0.018	0.162
80	6.67	0.33	0.180	(0.074)	0.018	0.162
81	6.75	0.33	0.180	(0.074)	0.018	0.162
82	6.83	0.33	0.180	(0.073)	0.018	0.162
83	6.92	0.33	0.180	(0.073)	0.018	0.162
84	7.00	0.33	0.180	(0.073)	0.018	0.162
85	7.08	0.33	0.180	(0.072)	0.018	0.162
86	7.17	0.33	0.180	(0.072)	0.018	0.162
87	7.25	0.33	0.180	(0.072)	0.018	0.162
88	7.33	0.37	0.198	(0.071)	0.020	0.178
89	7.42	0.37	0.198	(0.071)	0.020	0.178
90	7.50	0.37	0.198	(0.071)	0.020	0.178
91	7.58	0.40	0.216	(0.070)	0.022	0.194
92	7.67	0.40	0.216	(0.070)	0.022	0.194
93	7.75	0.40	0.216	(0.070)	0.022	0.194
94	7.83	0.43	0.234	(0.069)	0.023	0.211
95	7.92	0.43	0.234	(0.069)	0.023	0.211
96	8.00	0.43	0.234	(0.069)	0.023	0.211
97	8.08	0.50	0.270	(0.068)	0.027	0.243
98	8.17	0.50	0.270	(0.068)	0.027	0.243
99	8.25	0.50	0.270	(0.068)	0.027	0.243
100	8.33	0.50	0.270	(0.067)	0.027	0.243
101	8.42	0.50	0.270	(0.067)	0.027	0.243
102	8.50	0.50	0.270	(0.067)	0.027	0.243
103	8.58	0.53	0.288	(0.066)	0.029	0.259
104	8.67	0.53	0.288	(0.066)	0.029	0.259
105	8.75	0.53	0.288	(0.066)	0.029	0.259
106	8.83	0.57	0.306	(0.066)	0.031	0.275
107	8.92	0.57	0.306	(0.065)	0.031	0.275
108	9.00	0.57	0.306	(0.065)	0.031	0.275
109	9.08	0.63	0.342	(0.065)	0.034	0.308
110	9.17	0.63	0.342	(0.064)	0.034	0.308
111	9.25	0.63	0.342	(0.064)	0.034	0.308
112	9.33	0.67	0.360	(0.064)	0.036	0.324
113	9.42	0.67	0.360	(0.063)	0.036	0.324
114	9.50	0.67	0.360	(0.063)	0.036	0.324
115	9.58	0.70	0.378	(0.063)	0.038	0.340
116	9.67	0.70	0.378	(0.062)	0.038	0.340
117	9.75	0.70	0.378	(0.062)	0.038	0.340
118	9.83	0.73	0.396	(0.062)	0.040	0.356
119	9.92	0.73	0.396	(0.062)	0.040	0.356
120	10.00	0.73	0.396	(0.061)	0.040	0.356
121	10.08	0.50	0.270	(0.061)	0.027	0.243
122	10.17	0.50	0.270	(0.061)	0.027	0.243
123	10.25	0.50	0.270	(0.060)	0.027	0.243

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.270	(0.060)	0.027	0.243
125	10.42	0.50	0.270	(0.060)	0.027	0.243
126	10.50	0.50	0.270	(0.060)	0.027	0.243
127	10.58	0.67	0.360	(0.059)	0.036	0.324
128	10.67	0.67	0.360	(0.059)	0.036	0.324
129	10.75	0.67	0.360	(0.059)	0.036	0.324
130	10.83	0.67	0.360	(0.058)	0.036	0.324
131	10.92	0.67	0.360	(0.058)	0.036	0.324
132	11.00	0.67	0.360	(0.058)	0.036	0.324
133	11.08	0.63	0.342	(0.057)	0.034	0.308
134	11.17	0.63	0.342	(0.057)	0.034	0.308
135	11.25	0.63	0.342	(0.057)	0.034	0.308
136	11.33	0.63	0.342	(0.057)	0.034	0.308
137	11.42	0.63	0.342	(0.056)	0.034	0.308
138	11.50	0.63	0.342	(0.056)	0.034	0.308
139	11.58	0.57	0.306	(0.056)	0.031	0.275
140	11.67	0.57	0.306	(0.056)	0.031	0.275
141	11.75	0.57	0.306	(0.055)	0.031	0.275
142	11.83	0.60	0.324	(0.055)	0.032	0.292
143	11.92	0.60	0.324	(0.055)	0.032	0.292
144	12.00	0.60	0.324	(0.054)	0.032	0.292
145	12.08	0.83	0.450	(0.054)	0.045	0.405
146	12.17	0.83	0.450	(0.054)	0.045	0.405
147	12.25	0.83	0.450	(0.054)	0.045	0.405
148	12.33	0.87	0.468	(0.053)	0.047	0.421
149	12.42	0.87	0.468	(0.053)	0.047	0.421
150	12.50	0.87	0.468	(0.053)	0.047	0.421
151	12.58	0.93	0.504	(0.053)	0.050	0.454
152	12.67	0.93	0.504	(0.052)	0.050	0.454
153	12.75	0.93	0.504	(0.052)	0.050	0.454
154	12.83	0.97	0.522	0.052	(0.052)	0.470
155	12.92	0.97	0.522	0.051	(0.052)	0.470
156	13.00	0.97	0.522	0.051	(0.052)	0.471
157	13.08	1.13	0.612	0.051	(0.061)	0.561
158	13.17	1.13	0.612	0.051	(0.061)	0.561
159	13.25	1.13	0.612	0.050	(0.061)	0.561
160	13.33	1.13	0.612	0.050	(0.061)	0.562
161	13.42	1.13	0.612	0.050	(0.061)	0.562
162	13.50	1.13	0.612	0.050	(0.061)	0.562
163	13.58	0.77	0.414	(0.049)	0.041	0.373
164	13.67	0.77	0.414	(0.049)	0.041	0.373
165	13.75	0.77	0.414	(0.049)	0.041	0.373
166	13.83	0.77	0.414	(0.049)	0.041	0.373
167	13.92	0.77	0.414	(0.048)	0.041	0.373
168	14.00	0.77	0.414	(0.048)	0.041	0.373
169	14.08	0.90	0.486	0.048	(0.049)	0.438
170	14.17	0.90	0.486	0.048	(0.049)	0.438
171	14.25	0.90	0.486	0.047	(0.049)	0.438
172	14.33	0.87	0.468	(0.047)	0.047	0.421
173	14.42	0.87	0.468	(0.047)	0.047	0.421
174	14.50	0.87	0.468	0.047	(0.047)	0.421
175	14.58	0.87	0.468	0.046	(0.047)	0.421
176	14.67	0.87	0.468	0.046	(0.047)	0.422
177	14.75	0.87	0.468	0.046	(0.047)	0.422
178	14.83	0.83	0.450	(0.046)	0.045	0.405
179	14.92	0.83	0.450	(0.046)	0.045	0.405
180	15.00	0.83	0.450	(0.045)	0.045	0.405
181	15.08	0.80	0.432	(0.045)	0.043	0.389
182	15.17	0.80	0.432	(0.045)	0.043	0.389
183	15.25	0.80	0.432	(0.045)	0.043	0.389
184	15.33	0.77	0.414	(0.044)	0.041	0.373
185	15.42	0.77	0.414	(0.044)	0.041	0.373
186	15.50	0.77	0.414	(0.044)	0.041	0.373
187	15.58	0.63	0.342	(0.044)	0.034	0.308
188	15.67	0.63	0.342	(0.043)	0.034	0.308
189	15.75	0.63	0.342	(0.043)	0.034	0.308
190	15.83	0.63	0.342	(0.043)	0.034	0.308
191	15.92	0.63	0.342	(0.043)	0.034	0.308
192	16.00	0.63	0.342	(0.043)	0.034	0.308
193	16.08	0.13	0.072	(0.042)	0.007	0.065
194	16.17	0.13	0.072	(0.042)	0.007	0.065
195	16.25	0.13	0.072	(0.042)	0.007	0.065
196	16.33	0.13	0.072	(0.042)	0.007	0.065
197	16.42	0.13	0.072	(0.042)	0.007	0.065
198	16.50	0.13	0.072	(0.041)	0.007	0.065
199	16.58	0.10	0.054	(0.041)	0.005	0.049
200	16.67	0.10	0.054	(0.041)	0.005	0.049

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.054	(0.041)	0.005	0.049
202	16.83	0.10	0.054	(0.040)	0.005	0.049
203	16.92	0.10	0.054	(0.040)	0.005	0.049
204	17.00	0.10	0.054	(0.040)	0.005	0.049
205	17.08	0.17	0.090	(0.040)	0.009	0.081
206	17.17	0.17	0.090	(0.040)	0.009	0.081
207	17.25	0.17	0.090	(0.039)	0.009	0.081
208	17.33	0.17	0.090	(0.039)	0.009	0.081
209	17.42	0.17	0.090	(0.039)	0.009	0.081
210	17.50	0.17	0.090	(0.039)	0.009	0.081
211	17.58	0.17	0.090	(0.039)	0.009	0.081
212	17.67	0.17	0.090	(0.038)	0.009	0.081
213	17.75	0.17	0.090	(0.038)	0.009	0.081
214	17.83	0.13	0.072	(0.038)	0.007	0.065
215	17.92	0.13	0.072	(0.038)	0.007	0.065
216	18.00	0.13	0.072	(0.038)	0.007	0.065
217	18.08	0.13	0.072	(0.038)	0.007	0.065
218	18.17	0.13	0.072	(0.037)	0.007	0.065
219	18.25	0.13	0.072	(0.037)	0.007	0.065
220	18.33	0.13	0.072	(0.037)	0.007	0.065
221	18.42	0.13	0.072	(0.037)	0.007	0.065
222	18.50	0.13	0.072	(0.037)	0.007	0.065
223	18.58	0.10	0.054	(0.036)	0.005	0.049
224	18.67	0.10	0.054	(0.036)	0.005	0.049
225	18.75	0.10	0.054	(0.036)	0.005	0.049
226	18.83	0.07	0.036	(0.036)	0.004	0.032
227	18.92	0.07	0.036	(0.036)	0.004	0.032
228	19.00	0.07	0.036	(0.036)	0.004	0.032
229	19.08	0.10	0.054	(0.035)	0.005	0.049
230	19.17	0.10	0.054	(0.035)	0.005	0.049
231	19.25	0.10	0.054	(0.035)	0.005	0.049
232	19.33	0.13	0.072	(0.035)	0.007	0.065
233	19.42	0.13	0.072	(0.035)	0.007	0.065
234	19.50	0.13	0.072	(0.035)	0.007	0.065
235	19.58	0.10	0.054	(0.034)	0.005	0.049
236	19.67	0.10	0.054	(0.034)	0.005	0.049
237	19.75	0.10	0.054	(0.034)	0.005	0.049
238	19.83	0.07	0.036	(0.034)	0.004	0.032
239	19.92	0.07	0.036	(0.034)	0.004	0.032
240	20.00	0.07	0.036	(0.034)	0.004	0.032
241	20.08	0.10	0.054	(0.034)	0.005	0.049
242	20.17	0.10	0.054	(0.033)	0.005	0.049
243	20.25	0.10	0.054	(0.033)	0.005	0.049
244	20.33	0.10	0.054	(0.033)	0.005	0.049
245	20.42	0.10	0.054	(0.033)	0.005	0.049
246	20.50	0.10	0.054	(0.033)	0.005	0.049
247	20.58	0.10	0.054	(0.033)	0.005	0.049
248	20.67	0.10	0.054	(0.033)	0.005	0.049
249	20.75	0.10	0.054	(0.032)	0.005	0.049
250	20.83	0.07	0.036	(0.032)	0.004	0.032
251	20.92	0.07	0.036	(0.032)	0.004	0.032
252	21.00	0.07	0.036	(0.032)	0.004	0.032
253	21.08	0.10	0.054	(0.032)	0.005	0.049
254	21.17	0.10	0.054	(0.032)	0.005	0.049
255	21.25	0.10	0.054	(0.032)	0.005	0.049
256	21.33	0.07	0.036	(0.032)	0.004	0.032
257	21.42	0.07	0.036	(0.031)	0.004	0.032
258	21.50	0.07	0.036	(0.031)	0.004	0.032
259	21.58	0.10	0.054	(0.031)	0.005	0.049
260	21.67	0.10	0.054	(0.031)	0.005	0.049
261	21.75	0.10	0.054	(0.031)	0.005	0.049
262	21.83	0.07	0.036	(0.031)	0.004	0.032
263	21.92	0.07	0.036	(0.031)	0.004	0.032
264	22.00	0.07	0.036	(0.031)	0.004	0.032
265	22.08	0.10	0.054	(0.031)	0.005	0.049
266	22.17	0.10	0.054	(0.030)	0.005	0.049
267	22.25	0.10	0.054	(0.030)	0.005	0.049
268	22.33	0.07	0.036	(0.030)	0.004	0.032
269	22.42	0.07	0.036	(0.030)	0.004	0.032
270	22.50	0.07	0.036	(0.030)	0.004	0.032
271	22.58	0.07	0.036	(0.030)	0.004	0.032
272	22.67	0.07	0.036	(0.030)	0.004	0.032
273	22.75	0.07	0.036	(0.030)	0.004	0.032
274	22.83	0.07	0.036	(0.030)	0.004	0.032
275	22.92	0.07	0.036	(0.030)	0.004	0.032
276	23.00	0.07	0.036	(0.030)	0.004	0.032
277	23.08	0.07	0.036	(0.030)	0.004	0.032

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.036	(0.029)	0.004	0.032	
279	23.25	0.07	0.036	(0.029)	0.004	0.032	
280	23.33	0.07	0.036	(0.029)	0.004	0.032	
281	23.42	0.07	0.036	(0.029)	0.004	0.032	
282	23.50	0.07	0.036	(0.029)	0.004	0.032	
283	23.58	0.07	0.036	(0.029)	0.004	0.032	
284	23.67	0.07	0.036	(0.029)	0.004	0.032	
285	23.75	0.07	0.036	(0.029)	0.004	0.032	
286	23.83	0.07	0.036	(0.029)	0.004	0.032	
287	23.92	0.07	0.036	(0.029)	0.004	0.032	
288	24.00	0.07	0.036	(0.029)	0.004	0.032	

(Loss Rate Not Used)

Sum = 100.0 Sum = 48.7

Flood volume = Effective rainfall 4.06(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 22.7(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.483(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 987794.6 Cubic Feet
Total soil loss = 108140.2 Cubic Feet

Peak flow rate of this hydrograph = 37.852(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 10.0 20.0 30.0 40.0
0+ 5	0.0031	0.45	Q
0+10	0.0136	1.52	VQ
0+15	0.0263	1.85	VQ
0+20	0.0416	2.22	V Q
0+25	0.0612	2.84	V Q
0+30	0.0822	3.06	V Q
0+35	0.1040	3.16	V Q
0+40	0.1263	3.23	V Q
0+45	0.1487	3.26	V Q
0+50	0.1728	3.50	V Q
0+55	0.2007	4.05	V Q
1+ 0	0.2297	4.21	V Q
1+ 5	0.2576	4.06	V Q
1+10	0.2822	3.57	V Q
1+15	0.3058	3.43	V Q
1+20	0.3291	3.37	V Q
1+25	0.3521	3.34	V Q
1+30	0.3749	3.32	V Q
1+35	0.3977	3.30	V Q
1+40	0.4203	3.29	V Q
1+45	0.4430	3.29	V Q
1+50	0.4672	3.51	V Q
1+55	0.4950	4.05	V Q
2+ 0	0.5240	4.21	V Q
2+ 5	0.5536	4.29	V Q
2+10	0.5834	4.33	|V Q
2+15	0.6134	4.35	|V Q
2+20	0.6435	4.37	|V Q
2+25	0.6736	4.38	|V Q
2+30	0.7038	4.38	|V Q
2+35	0.7356	4.61	|V Q
2+40	0.7710	5.14	|V Q
2+45	0.8076	5.31	|V Q
2+50	0.8446	5.38	|V Q
2+55	0.8820	5.42	|V Q
3+ 0	0.9195	5.45	|V Q
3+ 5	0.9572	5.47	|V Q
3+10	0.9949	5.48	|V Q
3+15	1.0326	5.48	|V Q
3+20	1.0704	5.48	|V Q
3+25	1.1081	5.48	|V Q
3+30	1.1459	5.48	| V Q
3+35	1.1836	5.48	| V Q
3+40	1.2213	5.48	| V Q
3+45	1.2591	5.48	| V Q

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	1.2984	5.71	V Q				
3+55	1.3413	6.24	V Q				
4+ 0	1.3854	6.40	V Q				
4+ 5	1.4300	6.48	V Q				
4+10	1.4749	6.52	V Q				
4+15	1.5200	6.55	V Q				
4+20	1.5668	6.79	V Q				
4+25	1.6173	7.33	V Q				
4+30	1.6689	7.50	V Q				
4+35	1.7211	7.57	V Q				
4+40	1.7736	7.62	V Q				
4+45	1.8262	7.64	V Q				
4+50	1.8805	7.88	V Q				
4+55	1.9386	8.43	V Q				
5+ 0	1.9977	8.60	V Q				
5+ 5	2.0543	8.22	V Q				
5+10	2.1039	7.19	V Q				
5+15	2.1513	6.89	V Q				
5+20	2.1994	6.98	V Q				
5+25	2.2507	7.45	V Q				
5+30	2.3028	7.56	V Q				
5+35	2.3567	7.83	V Q				
5+40	2.4144	8.37	V Q				
5+45	2.4733	8.57	V Q				
5+50	2.5330	8.66	V Q				
5+55	2.5930	8.71	V Q				
6+ 0	2.6531	8.74	V Q				
6+ 5	2.7150	8.98	V Q				
6+10	2.7806	9.53	V Q				
6+15	2.8473	9.69	V Q				
6+20	2.9146	9.77	V Q				
6+25	2.9821	9.81	V Q				
6+30	3.0499	9.83	V Q				
6+35	3.1193	10.08	V Q				
6+40	3.1924	10.62	V Q				
6+45	3.2667	10.79	V Q				
6+50	3.3415	10.86	V Q				
6+55	3.4166	10.90	V Q				
7+ 0	3.4919	10.93	V Q				
7+ 5	3.5673	10.95	V Q				
7+10	3.6428	10.96	V Q				
7+15	3.7182	10.96	V Q				
7+20	3.7953	11.19	V Q				
7+25	3.8760	11.72	V Q				
7+30	3.9578	11.88	V Q				
7+35	4.0417	12.18	V Q				
7+40	4.1296	12.76	V Q				
7+45	4.2188	12.95	V Q				
7+50	4.3101	13.27	V Q				
7+55	4.4056	13.85	V Q				
8+ 0	4.5023	14.05	V Q				
8+ 5	4.6028	14.59	V Q				
8+10	4.7110	15.71	V Q				
8+15	4.8216	16.06	V Q				
8+20	4.9334	16.23	V Q				
8+25	5.0458	16.33	V Q				
8+30	5.1586	16.38	V Q				
8+35	5.2732	16.64	V Q				
8+40	5.3917	17.20	V Q				
8+45	5.5112	17.36	V Q				
8+50	5.6329	17.66	V Q				
8+55	5.7585	18.24	V Q				
9+ 0	5.8854	18.43	V Q				
9+ 5	6.0161	18.97	V Q				
9+10	6.1545	20.09	V Q				
9+15	6.2953	20.45	V Q				
9+20	6.4388	20.84	V Q				
9+25	6.5867	21.47	V Q				
9+30	6.7361	21.69	V Q				
9+35	6.8877	22.02	V Q				
9+40	7.0435	22.62	V Q				
9+45	7.2006	22.81	V Q				
9+50	7.3599	23.13	V Q				
9+55	7.5233	23.72	V Q				
10+ 0	7.6879	23.91	V Q				
10+ 5	7.8423	22.42	V Q				
10+10	7.9714	18.74	V Q				

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10024100

10+15	8.0927	17.62	|	|	V Q |	|	|	|
10+20	8.2105	17.11	|	|	V Q |	|	|	|
10+25	8.3265	16.83	|	|	V Q |	|	|	|
10+30	8.4411	16.64	|	|	V Q |	|	|	|
10+35	8.5627	17.66	|	|	V Q |	|	|	|
10+40	8.7021	20.24	|	|	V Q |	|	|	|
10+45	8.8471	21.06	|	|	V |Q |	|	|	|
10+50	8.9947	21.43	|	|	V |Q |	|	|	|
10+55	9.1437	21.64	|	|	V |Q |	|	|	|
11+ 0	9.2937	21.77	|	|	V |Q |	|	|	|
11+ 5	9.4426	21.63	|	|	V |Q |	|	|	|
11+10	9.5883	21.16	|	|	V |Q |	|	|	|
11+15	9.7329	21.00	|	|	V Q |	|	|	|
11+20	9.8770	20.92	|	|	V Q |	|	|	|
11+25	10.0208	20.88	|	|	V Q |	|	|	|
11+30	10.1644	20.85	|	|	V Q |	|	|	|
11+35	10.3048	20.38	|	|	V Q |	|	|	|
11+40	10.4378	19.30	|	|	VQ|	|	|	|
11+45	10.5684	18.98	|	|	Q |	|	|	|
11+50	10.6997	19.05	|	|	VQ|	|	|	|
11+55	10.8340	19.50	|	|	Q|	|	|	|
12+ 0	10.9690	19.61	|	|	Q|	|	|	|
12+ 5	11.1153	21.24	|	|	V|Q |	|	|	|
12+10	11.2874	24.99	|	|	V| Q |	|	|	|
12+15	11.4676	26.16	|	|	V Q |	|	|	|
12+20	11.6530	26.93	|	|	V Q |	|	|	|
12+25	11.8442	27.77	|	|	V Q |	|	|	|
12+30	12.0379	28.12	|	|	|V Q |	|	|	|
12+35	12.2359	28.76	|	|	|V Q |	|	|	|
12+40	12.4422	29.96	|	|	|V Q|	|	|	|
12+45	12.6510	30.31	|	|	| V Q |	|	|	|
12+50	12.8625	30.71	|	|	| V Q |	|	|	|
12+55	13.0785	31.36	|	|	| V |Q |	|	|	|
13+ 0	13.2960	31.59	|	|	| V |Q |	|	|	|
13+ 5	13.5231	32.97	|	|	| V | Q |	|	|	|
13+10	13.7712	36.02	|	|	| V | Q |	|	|	|
13+15	14.0258	36.98	|	|	| V | Q |	|	|	|
13+20	14.2836	37.42	|	|	| V | Q |	|	|	|
13+25	14.5431	37.69	|	|	| V | Q |	|	|	|
13+30	14.8038	37.85	|	|	| V | Q |	|	|	|
13+35	15.0470	35.31	|	|	| V | Q |	|	|	|
13+40	15.2477	29.14	|	|	| V Q|	|	|	|
13+45	15.4352	27.22	|	|	| Q |	|	|	|
13+50	15.6166	26.35	|	|	| QV |	|	|	|
13+55	15.7948	25.86	|	|	| Q V |	|	|	|
14+ 0	15.9707	25.55	|	|	| Q V |	|	|	|
14+ 5	16.1517	26.27	|	|	| Q V |	|	|	|
14+10	16.3464	28.28	|	|	| Q |	|	|	|
14+15	16.5458	28.95	|	|	| QV|	|	|	|
14+20	16.7457	29.02	|	|	| Q|	|	|	|
14+25	16.9428	28.62	|	|	| QV|	|	|	|
14+30	17.1395	28.56	|	|	| Q V |	|	|	|
14+35	17.3361	28.55	|	|	| Q V |	|	|	|
14+40	17.5329	28.57	|	|	| Q V |	|	|	|
14+45	17.7296	28.56	|	|	| Q |V |	|	|	|
14+50	17.9246	28.32	|	|	| Q |V |	|	|	|
14+55	18.1157	27.75	|	|	| Q |V |	|	|	|
15+ 0	18.3056	27.58	|	|	| Q | V |	|	|	|
15+ 5	18.4934	27.27	|	|	| Q | V |	|	|	|
15+10	18.6773	26.70	|	|	| Q | V |	|	|	|
15+15	18.8599	26.51	|	|	| Q | V |	|	|	|
15+20	19.0402	26.19	|	|	| Q | V |	|	|	|
15+25	19.2165	25.60	|	|	| Q | V |	|	|	|
15+30	19.3915	25.41	|	|	| Q | V |	|	|	|
15+35	19.5596	24.41	|	|	| Q | V |	|	|	|
15+40	19.7127	22.22	|	|	| Q | V |	|	|	|
15+45	19.8611	21.54	|	|	|Q | V |	|	|	|
15+50	20.0073	21.23	|	|	|Q | V |	|	|	|
15+55	20.1522	21.05	|	|	|Q | V |	|	|	|
16+ 0	20.2964	20.94	|	|	Q | V |	|	|	|
16+ 5	20.4169	17.49	|	| Q |	|	| V |	|
16+10	20.4818	9.43	| Q|	|	|	| V |	|
16+15	20.5298	6.97	| Q |	|	|	| V |	|
16+20	20.5701	5.85	| Q |	|	|	| V |	|
16+25	20.6061	5.22	| Q |	|	|	| V |	|
16+30	20.6393	4.82	| Q |	|	|	| V |	|
16+35	20.6693	4.36	| Q |	|	|	| V |	|

16+40	20.6942	3.62	Q				V
16+45	20.7181	3.46	Q				V
16+50	20.7414	3.39	Q				V
16+55	20.7644	3.34	Q				V
17+ 0	20.7873	3.32	Q				V
17+ 5	20.8131	3.75	Q				V
17+10	20.8462	4.81	Q				V
17+15	20.8816	5.13	Q				V
17+20	20.9180	5.28	Q				V
17+25	20.9549	5.37	Q				V
17+30	20.9923	5.42	Q				V
17+35	21.0298	5.45	Q				V
17+40	21.0676	5.48	Q				V
17+45	21.1053	5.48	Q				V
17+50	21.1415	5.25	Q				V
17+55	21.1740	4.72	Q				V
18+ 0	21.2054	4.56	Q				V
18+ 5	21.2362	4.48	Q				V
18+10	21.2668	4.44	Q				V
18+15	21.2972	4.41	Q				V
18+20	21.3275	4.40	Q				V
18+25	21.3577	4.38	Q				V
18+30	21.3879	4.38	Q				V
18+35	21.4165	4.16	Q				V
18+40	21.4415	3.62	Q				V
18+45	21.4653	3.46	Q				V
18+50	21.4871	3.16	Q				V
18+55	21.5049	2.58	Q				V
19+ 0	21.5213	2.39	Q				V
19+ 5	21.5388	2.53	Q				V
19+10	21.5595	3.01	Q				V
19+15	21.5811	3.14	Q				V
19+20	21.6047	3.43	Q				V
19+25	21.6322	3.99	Q				V
19+30	21.6610	4.18	Q				V
19+35	21.6889	4.05	Q				V
19+40	21.7135	3.57	Q				V
19+45	21.7371	3.43	Q				V
19+50	21.7588	3.15	Q				V
19+55	21.7766	2.58	Q				V
20+ 0	21.7931	2.39	Q				V
20+ 5	21.8105	2.53	Q				V
20+10	21.8312	3.01	Q				V
20+15	21.8528	3.14	Q				V
20+20	21.8749	3.20	Q				V
20+25	21.8972	3.23	Q				V
20+30	21.9196	3.26	Q				V
20+35	21.9422	3.27	Q				V
20+40	21.9648	3.29	Q				V
20+45	21.9874	3.29	Q				V
20+50	22.0085	3.06	Q				V
20+55	22.0259	2.53	Q				V
21+ 0	22.0422	2.36	Q				V
21+ 5	22.0596	2.52	Q				V
21+10	22.0803	3.01	Q				V
21+15	22.1019	3.14	Q				V
21+20	22.1224	2.98	Q				V
21+25	22.1395	2.47	Q				V
21+30	22.1555	2.33	Q				V
21+35	22.1728	2.50	Q				V
21+40	22.1935	3.01	Q				V
21+45	22.2151	3.14	Q				V
21+50	22.2356	2.98	Q				V
21+55	22.2527	2.47	Q				V
22+ 0	22.2688	2.33	Q				V
22+ 5	22.2860	2.50	Q				V
22+10	22.3067	3.01	Q				V
22+15	22.3284	3.14	Q				V
22+20	22.3489	2.98	Q				V
22+25	22.3659	2.47	Q				V
22+30	22.3820	2.33	Q				V
22+35	22.3976	2.28	Q				V
22+40	22.4131	2.25	Q				V
22+45	22.4284	2.22	Q				V
22+50	22.4436	2.21	Q				V
22+55	22.4587	2.19	Q				V
23+ 0	22.4738	2.19	Q				V

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

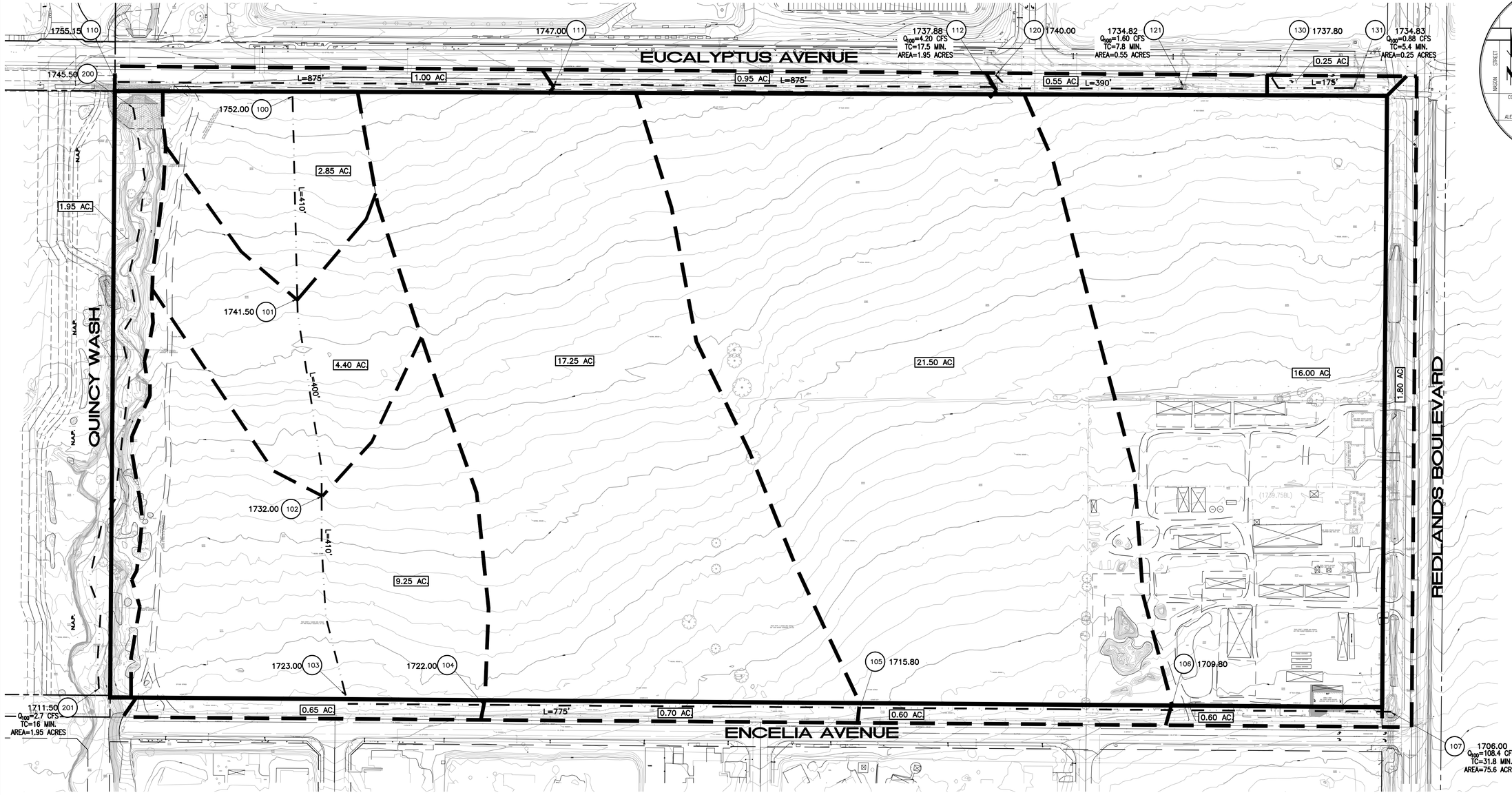
23+ 5	22.4889	2.19	Q				V
23+10	22.5040	2.19	Q				V
23+15	22.5191	2.19	Q				V
23+20	22.5342	2.19	Q				V
23+25	22.5493	2.19	Q				V
23+30	22.5644	2.19	Q				V
23+35	22.5795	2.19	Q				V
23+40	22.5946	2.19	Q				V
23+45	22.6097	2.19	Q				V
23+50	22.6248	2.19	Q				V
23+55	22.6399	2.19	Q				V
24+ 0	22.6549	2.19	Q				V
24+ 5	22.6669	1.74	Q				V
24+10	22.6716	0.67	Q				V
24+15	22.6739	0.34	Q				V
24+20	22.6753	0.20	Q				V
24+25	22.6761	0.11	Q				V
24+30	22.6765	0.06	Q				V
24+35	22.6766	0.03	Q				V

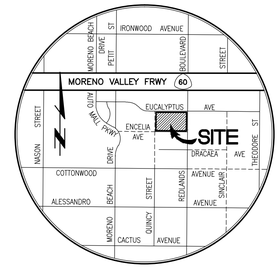
Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX D

HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley





VICINITY MAP

N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

NOTE:
SEE PROPOSED CONDITION RATIONAL METHOD CALCULATIONS FOR OFFSITE STREET RUNS

0 50 100 200 300

SCALE:1"=100'

PEN19-0193/LST21-0023

Last Update: 8/3/21
O:\3800-3899\3828\3828HYD EX JW.dwg

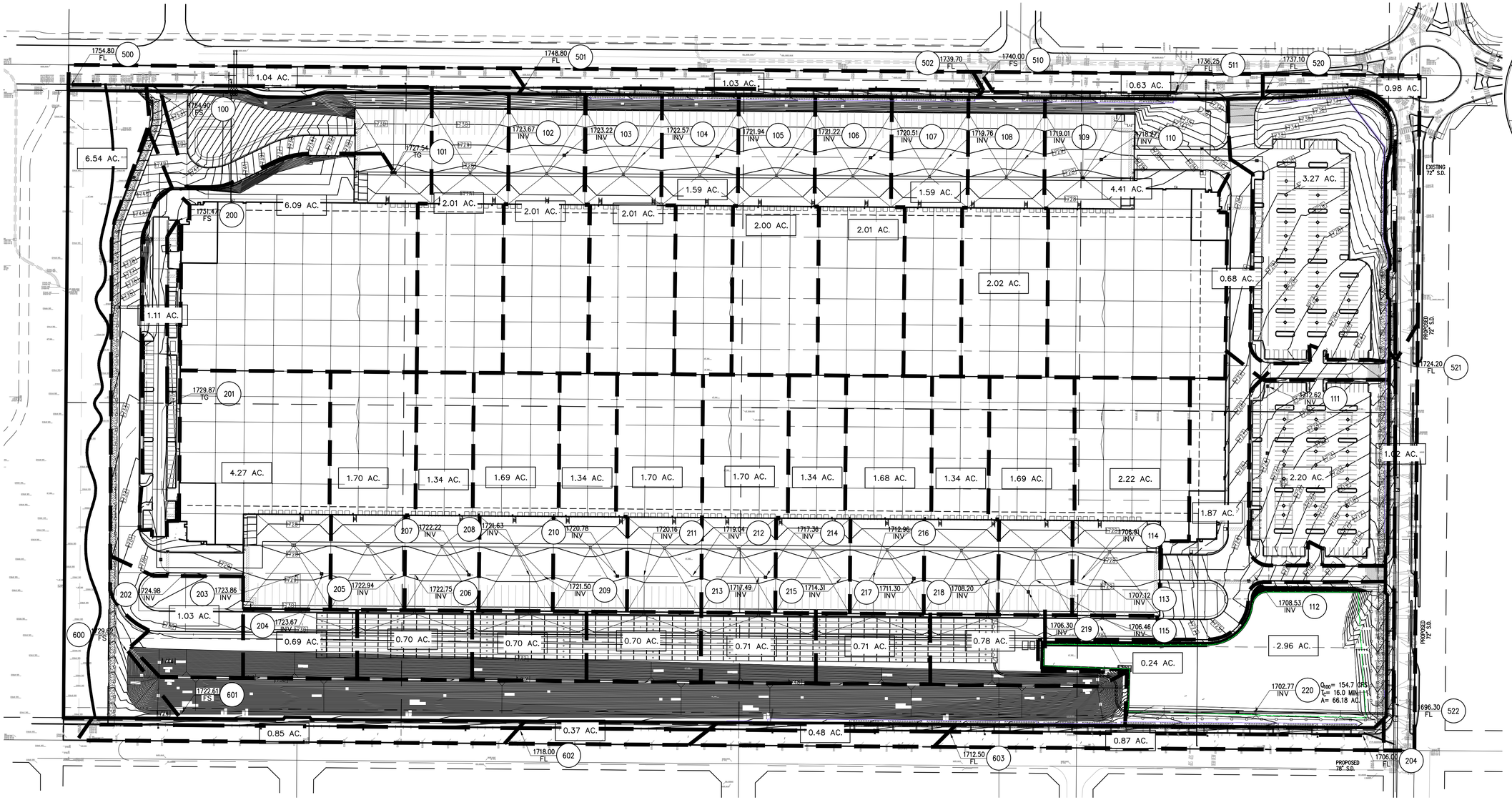
PREPARED FOR:

HILLWOOD INVESTMENTS
901 VIA PIEMONTE, STE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FX:(714)521-4173

CITY OF MORENO VALLEY
EXISTING CONDITION HYDROLOGY MAP
MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)



VICINITY MAP
N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

0 50 100 200 300
SCALE: 1"=100'

PEN19-0193/LST21-0023 Last Update: 4/5/22 O:\3800-3899\3828\3828HYD.dwg

PREPARED FOR:
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, STE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY

PROPOSED CONDITION HYDROLOGY MAP OPTION 1
MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (High Cube) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center(Park)

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING

PRELIMINARY HYDROLOGY CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER
OPTION 2-E COMMERCE/FULFILLMENT CENTER SITE PLAN
EUCALYPTUS AVENUE AND REDLANDS BLVD.
MORENO VALLEY, CALIFORNIA

PREPARED FOR
HILWOOD INVESTMENTS
901 VIA PIEMONTE, STE 1775
ONTARIO, CA 91764
PH. (949) 382-0033

APRIL 5, 2022

JOB NO. 3828

PREPARED BY

THIENES ENGINEERING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

HYDROLOGY AND HYDRAULIC CALCULATIONS

FOR

MORENO VALLEY TRADE CENTER

PREPARED
UNDER THE SUPERVISION OF

REINHARD STENZEL DATE:
R.C.E. 56155
EXP. : 12/31/22

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

TABLE OF CONTENTS

INTRODUCTION 1
VICINITY MAP 2
MASTER DRAINAGE PLAN 3
EXISTING CONDITION 4
PROPOSED CONDITION HYDROLOGY 4
DETENTION 6
METHODOLOGY 7
SUMMARY 7

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

INTRODUCTION

A: PROJECT LOCATION

The project site is located at southwest corner of Eucalyptus Avenue and Redlands Boulevard in the City of Moreno Valley. Encelia Avenue is adjacent to the southerly property line. Please see the next page for vicinity map.

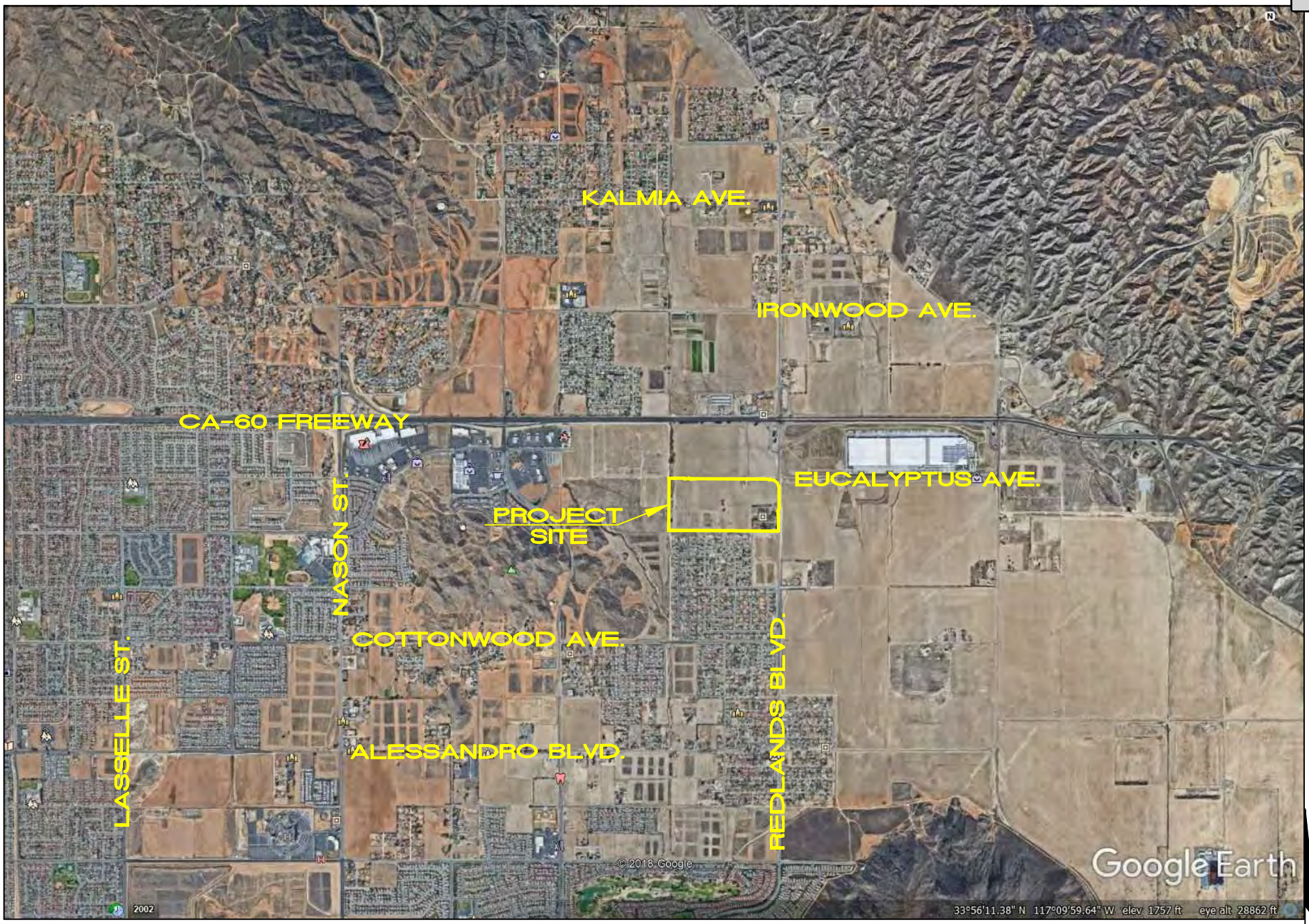
B: STUDY PURPOSE

The purpose of this study is to determine the existing and proposed condition peak flow rates for various storm events for the site. Discharge from the project site ultimately drains to an existing storm drain in Redlands Boulevard.

C: PROJECT STAFF:

Thienes Engineering staff involved in this study include:

Reinhard Stenzel
Kristie Ferronato
Brian Weil



Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

"VICINITY MAP"

FOR

EUCALYPTUS AVE. AND REDLANDS BLVD.

Last Update:11/6/19

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

DISCUSSION

The project site encompasses approximately 72.73 acres. However, several acres along the westerly property line are within an existing drainage channel (Quincy Wash) and will not be disturbed. Here, sheet piles will be constructed within the property site to protect the site from the Wash. Proposed improvements include one warehouse type building with approximately 1,328,853 square feet. There are truck yard areas on the northerly and southerly sides of the building. Vehicle parking is primarily on the easterly side of the property with some additional parking areas along the westerly drive aisle. There is a water quality/detention basin located along the southerly side of the side adjacent to Encelia Avenue. Additional landscaped areas are located adjacent to the streets and smaller areas throughout the project site.

Master Drainage Plan

The project site is tabled to a storm drain system in Redlands Boulevard (Moreno MDP Line F-2). At this time, only portions of the Master Plan Storm Drain system are constructed. Recent improvements to the north of the project site (Aldi Foods) constructed a portion of the ultimate storm drain in Redlands Boulevard. This is a 60"-72" storm drain (plans prepared by Huitt-Zollars) that connects to an existing 51" storm drain in Redlands Boulevard approximately 200' north of Eucalyptus Avenue and continues approximately 350' south of Eucalyptus Avenue to where it daylights into an existing unimproved earthen channel. This storm drain and channel is located at the easterly portion of the project site.

Runoff continues southerly in the unimproved earthen channel to an existing headwall located northerly of Dracaea Avenue. This is the upstream portion of Riverside County Flood Control and Water Conservation District storm drain Line "F-2". This is an existing 42" storm drain system that does not appear to be adequately sized for the peak flow rates specified in the recently constructed upstream storm drain system. The existing storm drain continues southerly past Brodiaea Avenue and discharges into an existing earthen channel (Line "F").

The Master Drainage Plan indicates a storm drain system in Eucalyptus Avenue (Lateral F-16). The necessary portions of this storm drain system was constructed with the Aldi Foods development to the north. In a memo dated December 23, 2020, Riverside County Flood Control and Water Conservation District (R.C.F.C.&W.C.D.) acknowledges that the "existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection." See Appendix "A" for a copy of this memo.

The Master Drainage Plan also indicates a storm drain system in Encelia Avenue (Lateral F-17) ranging from 42" to 60". The development of the project site will utilize a detention basin and onsite storm drain systems that will greatly reduce flow to Encelia Avenue such that only a shorter and smaller storm drain will be necessary in the street. In the same memo, R.C.F.C.&W.C.D. states "Since these facilities together collect and convey the

same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17".

See Appendix "A" for reference existing storm drain plans and a portion of the Master Drainage Plan.

Existing Condition

The project site is generally a vacant lot with natural grasses and weeds. The southeasterly portion of the site is an existing plant nursery. The nursery has a few small structures and appears unpaved. The westerly portion of the property is an unimproved drainage channel (Quincy Wash) and is not tributary to the project site.

Runoff from the site generally drains from north to south to Encelia Avenue at several locations (nodes 103, 105, 106, and 107 on existing condition hydrology map). Encelia Avenue drains from west to east to Redlands Boulevard ultimately to the existing channel adjacent to Redlands Boulevard.

Runoff from Redlands Boulevard flows southerly towards the intersection with Encilia Avenue and node 107. The 100-year Rational Method peak flow rate from the project site and adjacent streets approximately 108.4 cfs.

Runoff in Eucalyptus flows west to east and is intercepted by several riser inlet structures (nodes 112, 121, and 131). The respective 100-year Rational Method flow rates to each risers are approximately 4.2 cfs, 1.6 cfs, and 0.90 cfs.

See Appendix "B" for existing condition Rational Method calculations and Appendix "D" for existing condition hydrology map.

Existing condition hydrographs were established for various storm events. These peak flow rates and volumes are summarized below in the Detention discussion.

Proposed Condition Hydrology

Runoff from the northerly portion of the building, northerly truckyard and easterly parking lots (Nodes 100-115) will be captured in a proposed onsite storm drain system and conveyed southerly to an underground CMP detention system. Runoff from the southerly and westerly portions of the site (Nodes 200-219) will be conveyed to the southerly truck yard and confluenced with the runoff from the north.

Runoff from the detention basin in the southeasterly corner of the site (Node 220) will be confluenced in the proposed system and conveyed easterly. The 100-year peak flow rate from the project site is approximately 154.7 cfs.

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Discharge from the basin will be conveyed easterly through the project site in a proposed storm drain and connect to the proposed extension of the public storm drain system in Redlands Boulevard. This will eliminate runoff to Encelia Avenue as well as the need for Master Drainage Plan Lateral "F-17", as previously mentioned in R.C.F.C.&W.C.D. memo dated December 23, 2020. The proposed public storm drain will be sized to include the ultimate peak flow rates upstream as well as the discharge from the detention basin. Final design will dictate exact pipe sizes. The public storm drain will continue south in place of the open earth channel to the existing 42" storm drain near Dracaea Avenue. The existing headwall will be removed and the proposed drain will connect to the existing system.

The existing 42" downstream storm drain system does not have the same capacity as the proposed 78" storm drain system. To avoid overburdening the existing 42" storm drain, a relief system will be designed to ensure that flow not allowed into the existing facility can discharge to the street. This will emulate existing conditions where runoff that is not currently allowed into the storm drain (via existing headwall adjacent to the Redlands Avenue) can then drain to the street. Regardless of how the storm drain systems connect, runoff exceeding the capacity of the 42" storm drain system remains on westerly surface of Redlands Avenue. The final design shall be to the satisfaction of the City Manager or City Engineer.

The landscaped areas adjacent to Encelia Avenue will sheet flow to the street and join the street runoff flowing easterly towards the intersection with Redlands Boulevard (nodes 600-604). The runoff will be intercepted by a catch basin in Encilia Avenue and will enter the proposed public storm drain in Redlands Boulevard. The 100-year Rational Method peak runoff from these areas is approximately 7.1 cfs. With the proposed onsite improvements, this is the only drainage system required in Encilia Avenue.

The landscaped frontage along Eucalyptus Avenue will also drain to the street. Catch Basins at nodes 502 and 511 will intercept street and landscape runoff and convey it to the existing 54" storm drain in Eucalyptus Avenue. The 100-year Rational Method peak runoff to these nodes will be approximately 4.4 cfs and 2.8 cfs respectively.

Runoff from Redlands Boulevard and the adjacent project frontage will flow southerly within Redlands Boulevard to a catch basin near the intersection with Encilia Avenue (nodes 520-522). The 100-year Rational Method peak runoff to node 522 will be approximately 4.9 cfs.

Approximately 2.50 acres of area adjacent to the Quincy Wash at the westerly portion of the site will remain undisturbed. The landscaped frontage along Redlands Boulevard will produce a similar amount of runoff as the existing condition and will drain directly to the street.

See Appendix "B" for proposed condition hydrology calculations and Appendix "D" for proposed condition hydrology map.

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Detention

Since downstream facilities do not appear to have capacity for the increase in peak flow and volume from the proposed commercial project, detention will be required to limit runoff to no more than that under existing conditions. Detention analysis is considered for the 2-, 5-, 10- and 100-year storm events. Riverside County allows "preliminary sizing of increased runoff basin may be based on the difference in volume between the developed condition and the pre-developed condition for the 24-hour duration event for the 10-year return frequency."

1-, 3-, 6-, and 24-hour hydrographs were established for all areas tributary to the detention basin for the 2-, 5-, 10- and 100-year events for both existing (undeveloped) and proposed conditions. For existing conditions, the land use is considered "open brush, poor cover". Proposed conditions assume all commercial development. Rainfall values are taken from the Riverside County Hydrology Manual. For the 2- and 5-year events, the loss rate is determined using an AMC I condition. For the 10-year event, AMC II was used and for the 100-year event AMC III was used.

Note that not all area of the project site drains to the detention basin, thus the areas used for the detention analysis are slightly smaller than the total project site. Areas not tributary to the detention basin are the areas to the west and south of the site. It is assumed that the landscaped areas produce about the same runoff rates and volumes as the undeveloped site.

The following table summarizes existing and proposed condition peak flow rates and volumes associated with the area to the detention basin. From the table, the largest difference in volume is approximately 12.25 acre-feet (10-year 24-hour event). The largest difference in peak flow rate is about 46.3 cfs (5-year 1-hour event). For preliminary sizing, the detention basin will be sized to detain the largest difference in volume. The preliminary underground CMP system will be sized to match this volume. The southeasterly basin meets the surface area and volume requirements necessary for water quality purposes per separate Water Quality Management Plan.

Final design will dictate the outlet features that will limit runoff from all of the above events to less than existing conditions. The landscaped areas tributary to the street would yield peak flow rates similar to existing condition and are not included in the hydrographs.

See Appendix "C" for existing and proposed condition hydrographs.

The following table summarizes existing and proposed condition hydrographs:

BASIN SUMMARY TABLE

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49

100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Methodology

Hydrology calculations were computed using Riverside County Rational Method program (by AES software). Hydrograph were computed using CIVILD software. The soil type is "B" per Riverside County Hydrology Manual. See Appendix "A" for reference material from the Riverside County Hydrology Manual.

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

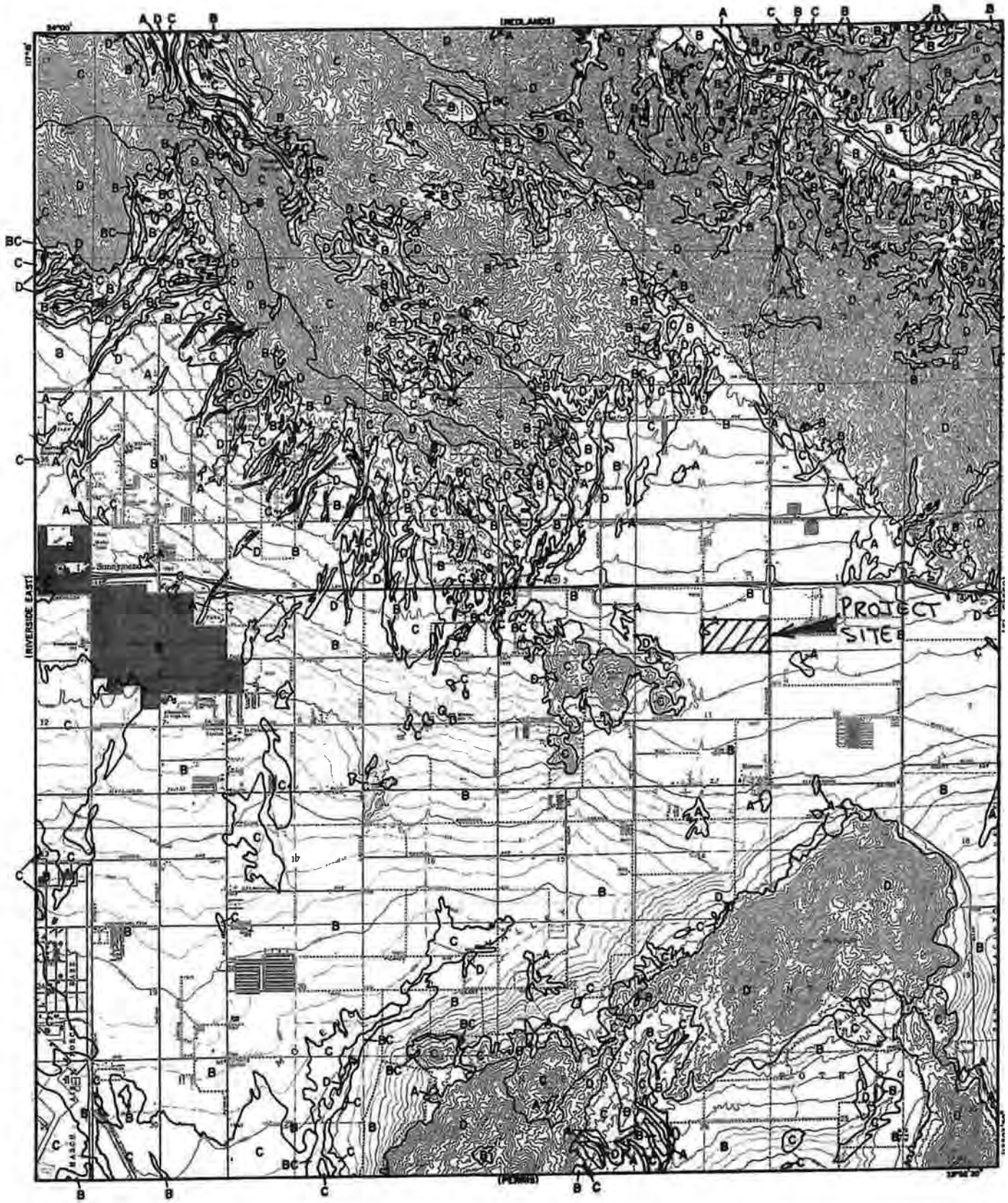
APPENDIX	TITLE
A	REFERENCE MATERIALS
B	HYDROLOGY CALCULATIONS
C	DETENTION CALCULATIONS
D	HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX A

REFERENCE MATERIAL

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



LEGEND

SOILS GROUP BOUNDARY

A SOILS GROUP DESIGNATION

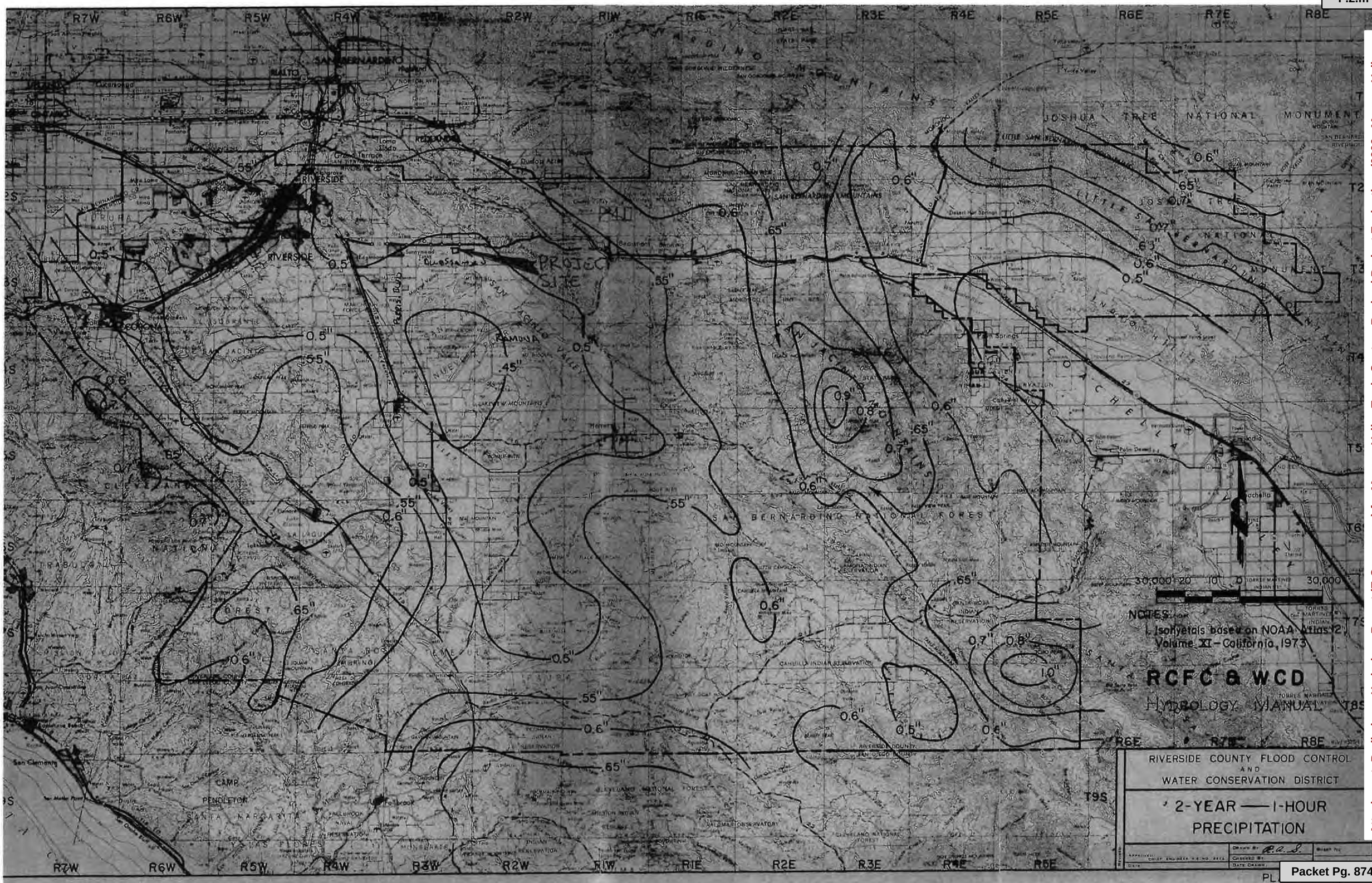
RCFC & WCD

HYDROLOGY MANUAL

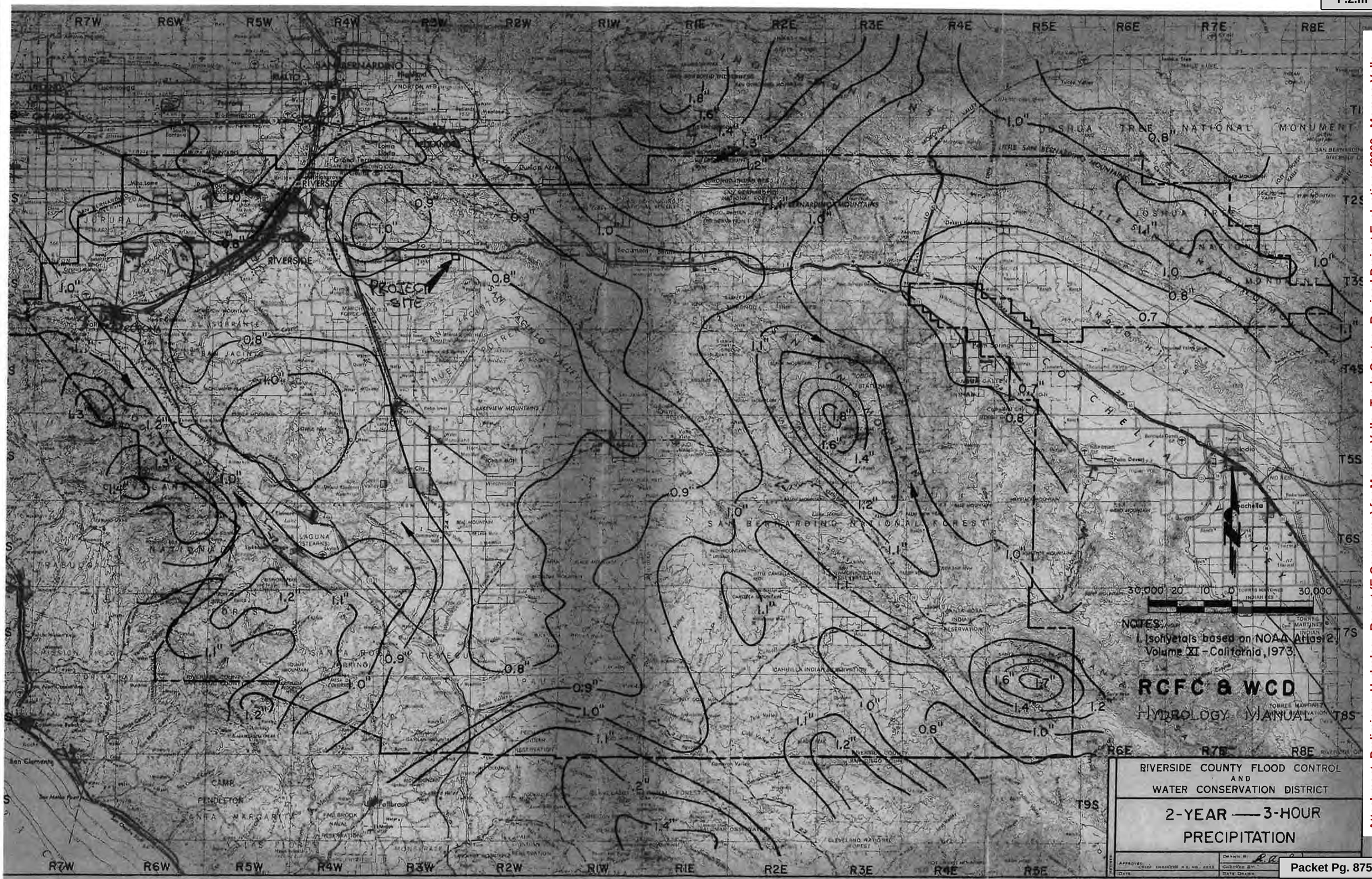
0 FEET 5000

HYDROLOGIC SOILS GROUP MAP FOR SUNNYMEAD

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



NOTES:
1. Isohyetals based on NOAA Atlas 2, Volume XI – California, 1973.

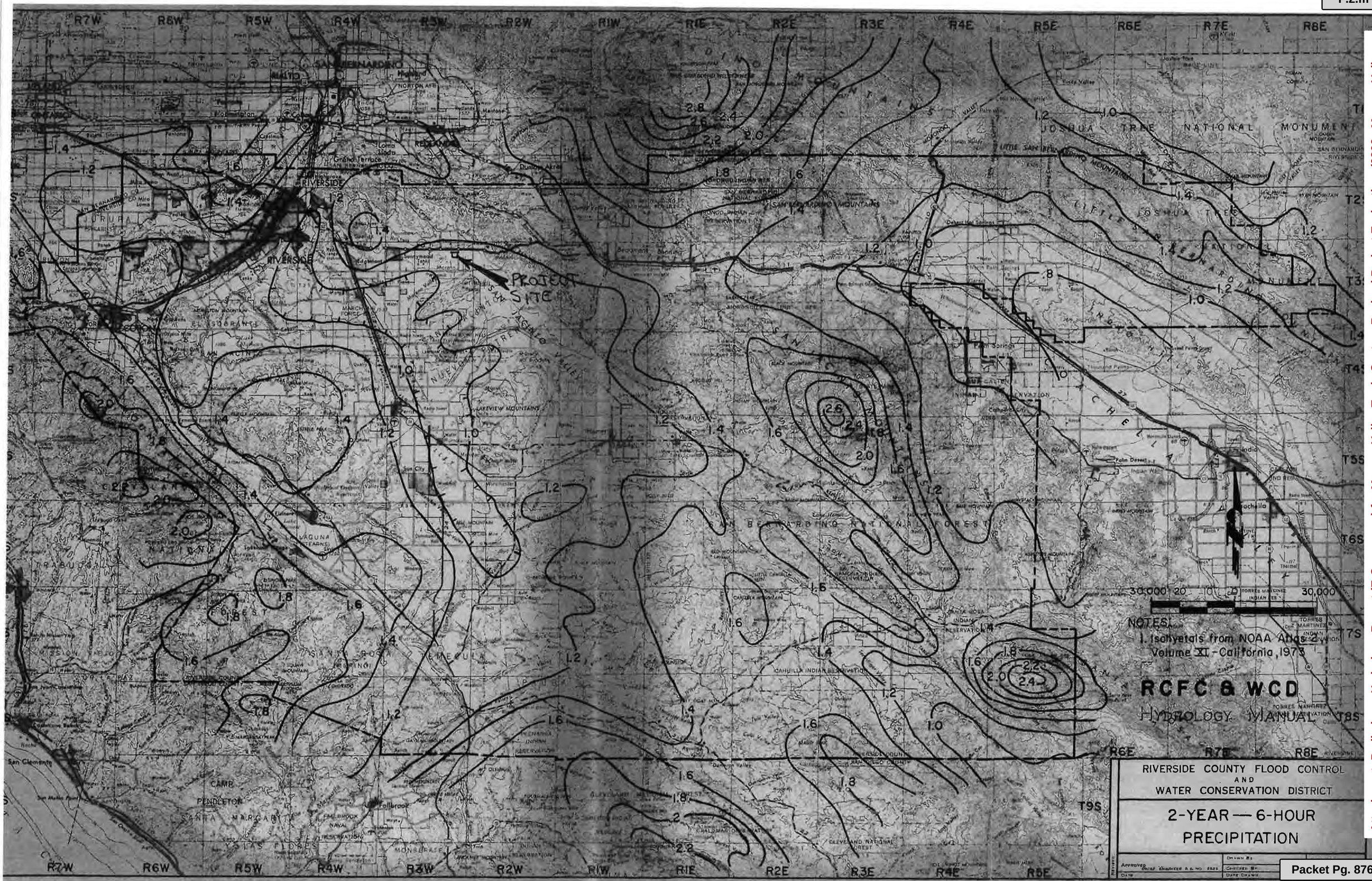
RCFC & WCD
HYDROLOGY MANUAL

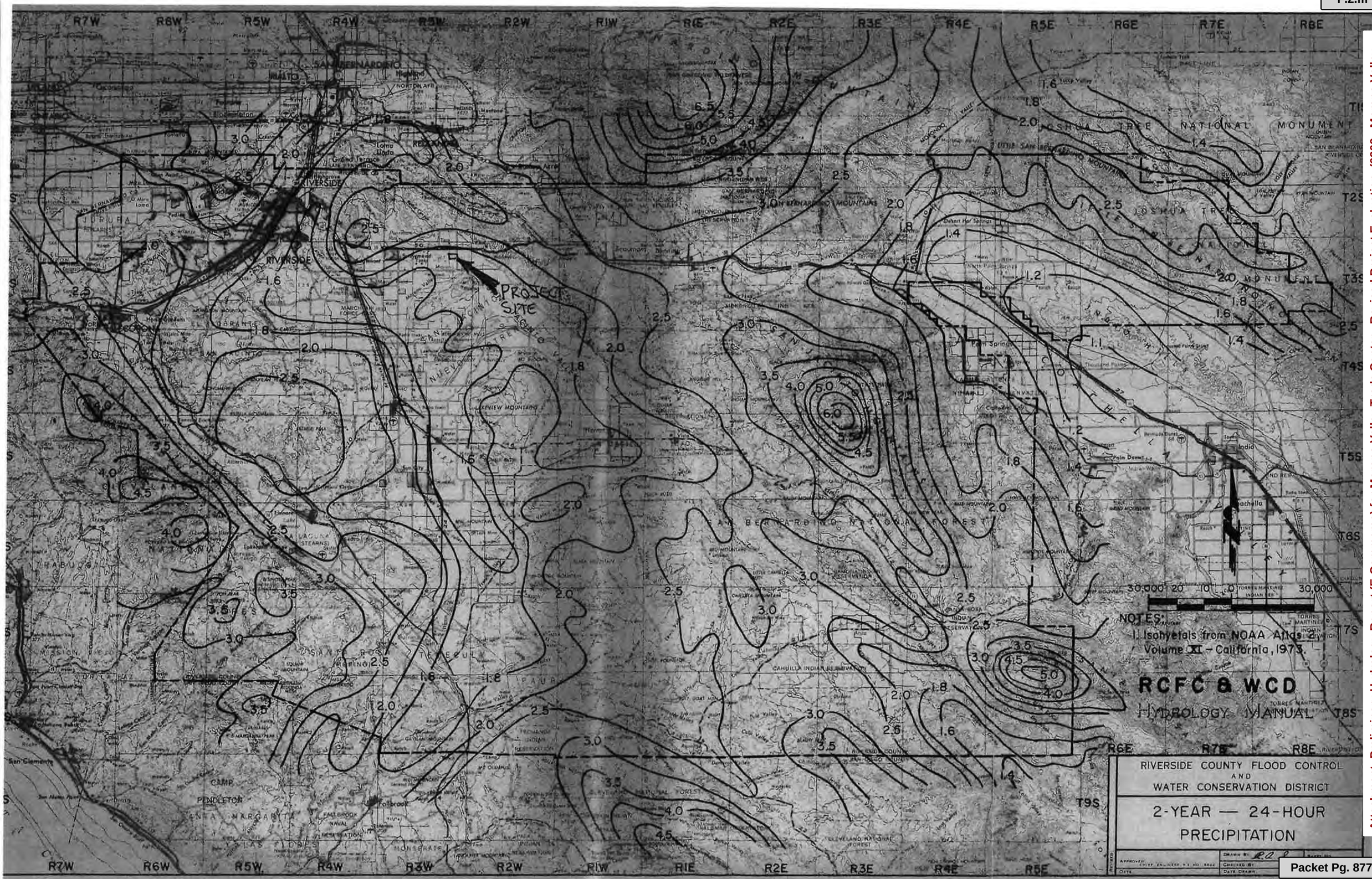
RIVERSIDE COUNTY FLOOD CONTROL
AND
WATER CONSERVATION DISTRICT

2-YEAR — 3-HOUR
PRECIPITATION

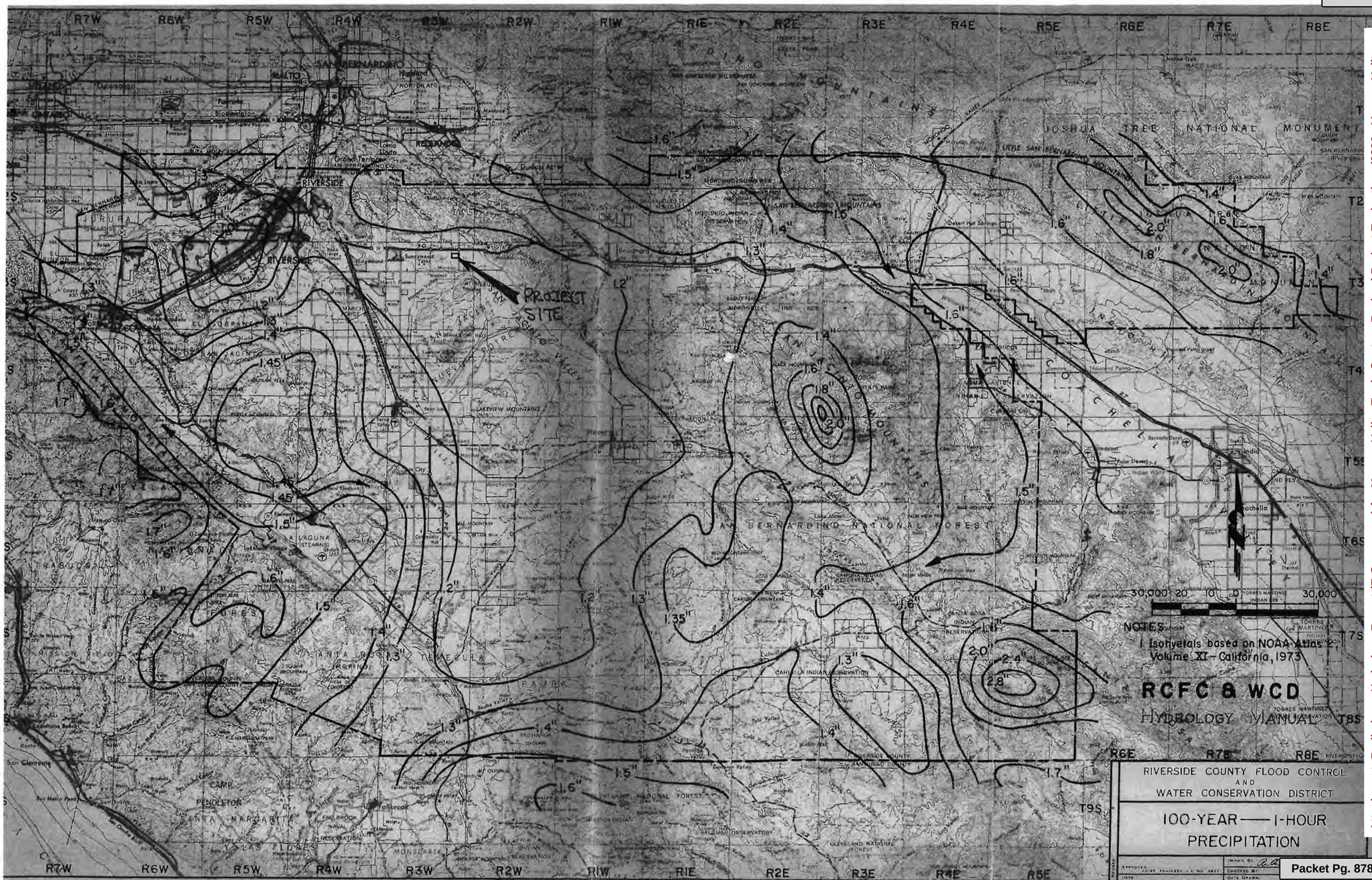
PLATE E-5.1

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

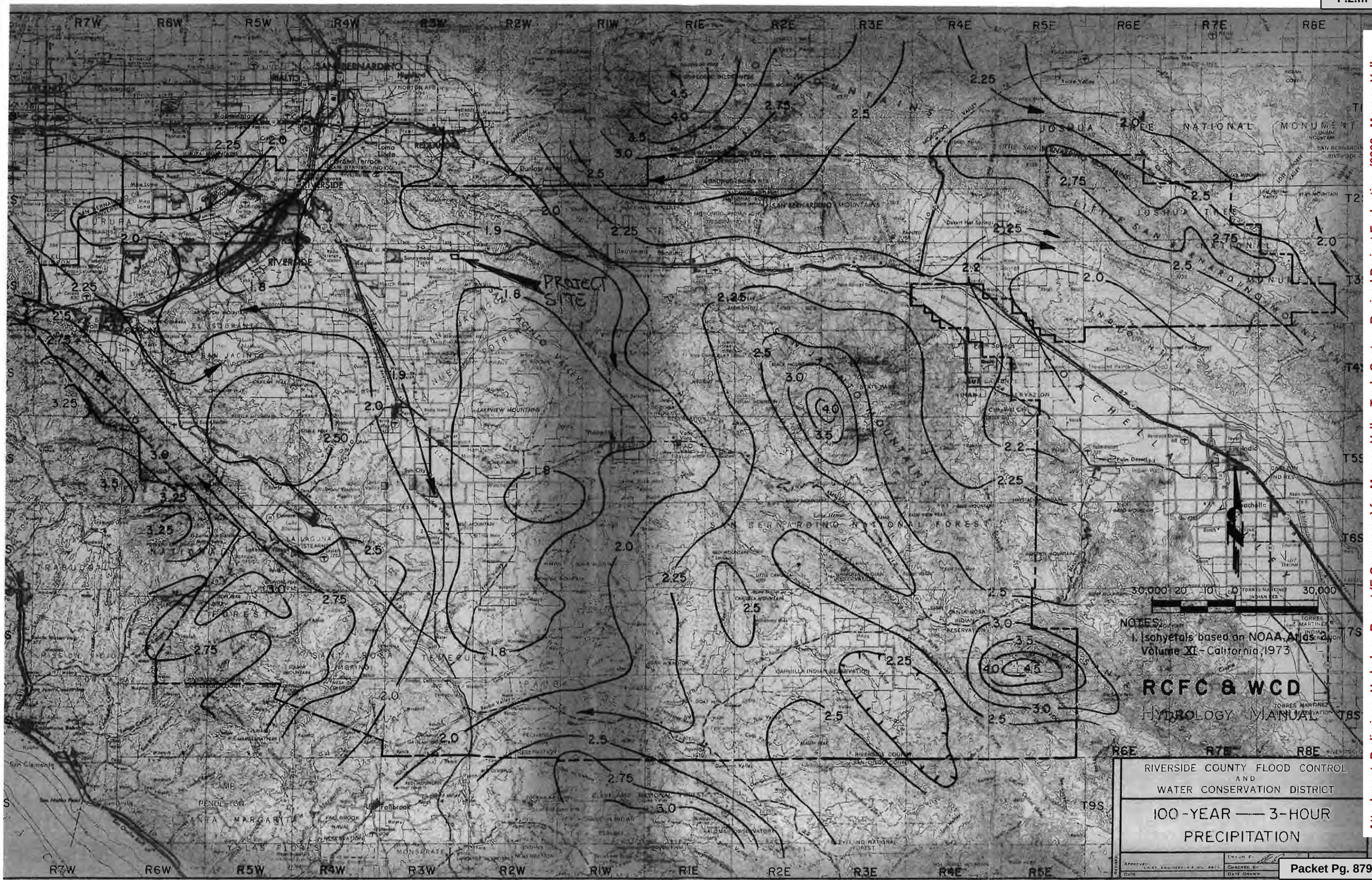

PROJECT SITE
RIVERSIDE
SAN BERNARDINO
NORTON AFB
MARCH AFB
PERRIS
CORONA
Riverside
Moreno Valley
Grand Terrace
Loma Linda
Colton
Rialto
Jurupa
Beaumont
Banning
Calimesa
Yucaipa
Redlands
Highland
San Jacinto
Hemet
Lake Elsinore
Temecula
Murrieta
Wildomar
Menifee
Canyon Lake
Lake Perris
Lake Mathews
Lake Skinner
Vail Lake
Diamond Valley Lake
Domenigoni Valley
Cahuilla Mountain
Santa Rosa Mountains
San Jacinto Mountains
Lakeview Mountains
Double Peak
Reche Canyon
Box Spring Mountains
Badlands
Alessandro
Nuevo
Lee Lake
Romoland
Homeland
Green Acres
Sun City
Quail Valley
Menifee Valley
Winchester
Temecula Valley
Pechanga Indian Reservation
Cahuilla Indian Reservation
Santa Rosa Plateau Ecological Reserve
Lake Perris State Recreation Area
Joshua Tree National Monument
Little San Bernardino Mountains
Pinto Mountain
Dos Palmas
Desert Center
Eagle Mountain
Eagle Mountain Mine
Palm Springs
Cathedral City
Rancho Mirage
Palm Desert
Indian Wells
La Quinta
Indio
Coachella
Thermal
Mecca
Oasis
Salton Sea
Torres Martinez Indian Reservation
Santa Rosa and San Jacinto Mountains National Monument
San Bernardino National Forest
Cleveland National Forest
Laguna Mountains
Laguna Mountains Recreation Area
Agua Tibia Wilderness
Agua Caliente Indian Reservation
Morongo Indian Reservation
Santa Ysabel Indian Reservation
Los Coyotes Indian Reservation
Camp Pendleton
Santa Margarita
Fallbrook
San Clemente
Mission Viejo
Rancho Santa Margarita
Las Flores
Oceanside
Escondido
Valley Center
Rancho California
Aguanga
Warner Springs
Julian
Ramona
Poway
Rancho Bernardo
Del Mar
Encinitas
Carlsbad
Vista
San Marcos
Camp Elliott
Miramar
Mission Trails Regional Park
Mission Bay
Point Loma
Coronado
Imperial Beach
Chula Vista
National City
San Diego
Otay Mountain
Otay Lakes
Lake Hodges
Lake Wohlford
Lake Henshaw
Lake Cuyamaca
Lake Morena
Lake Jennings
Lake Poway
Lake Miramar
Lake Murray
Lake Sutherland
Lake Cachuma
Lake Casitas
Lake Piru
Lake Castaic
Lake Pyramid
Lake Hughes
Lake Elizabeth
Lake Palmdale
Lake Los Angeles
Lake Arrowhead
Lake Gregory
Lake Silverwood
Lake Havasu
Lake Mead
Lake Mohave
Lake Isabella
Lake Kaweah
Lake Success
Lake Woodville
Lake Tulare
Lake Buena Vista
Lake Evans
Lake Ming
Lake Ming Recreation Area
Lake Ming Wilderness
Lake Ming Wilderness Area
Lake Ming Wilderness Area
Lake Ming Wilderness Area



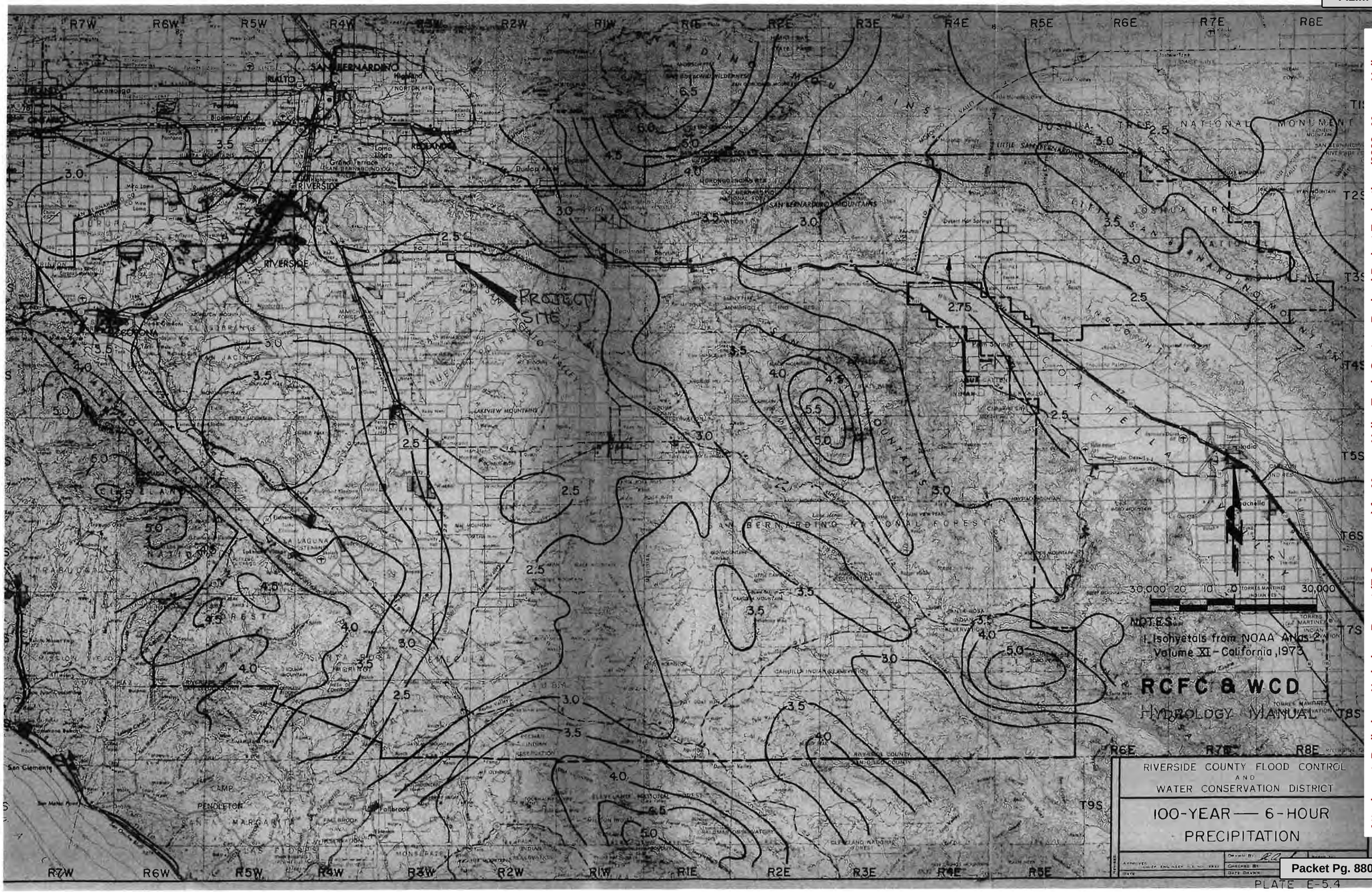
Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



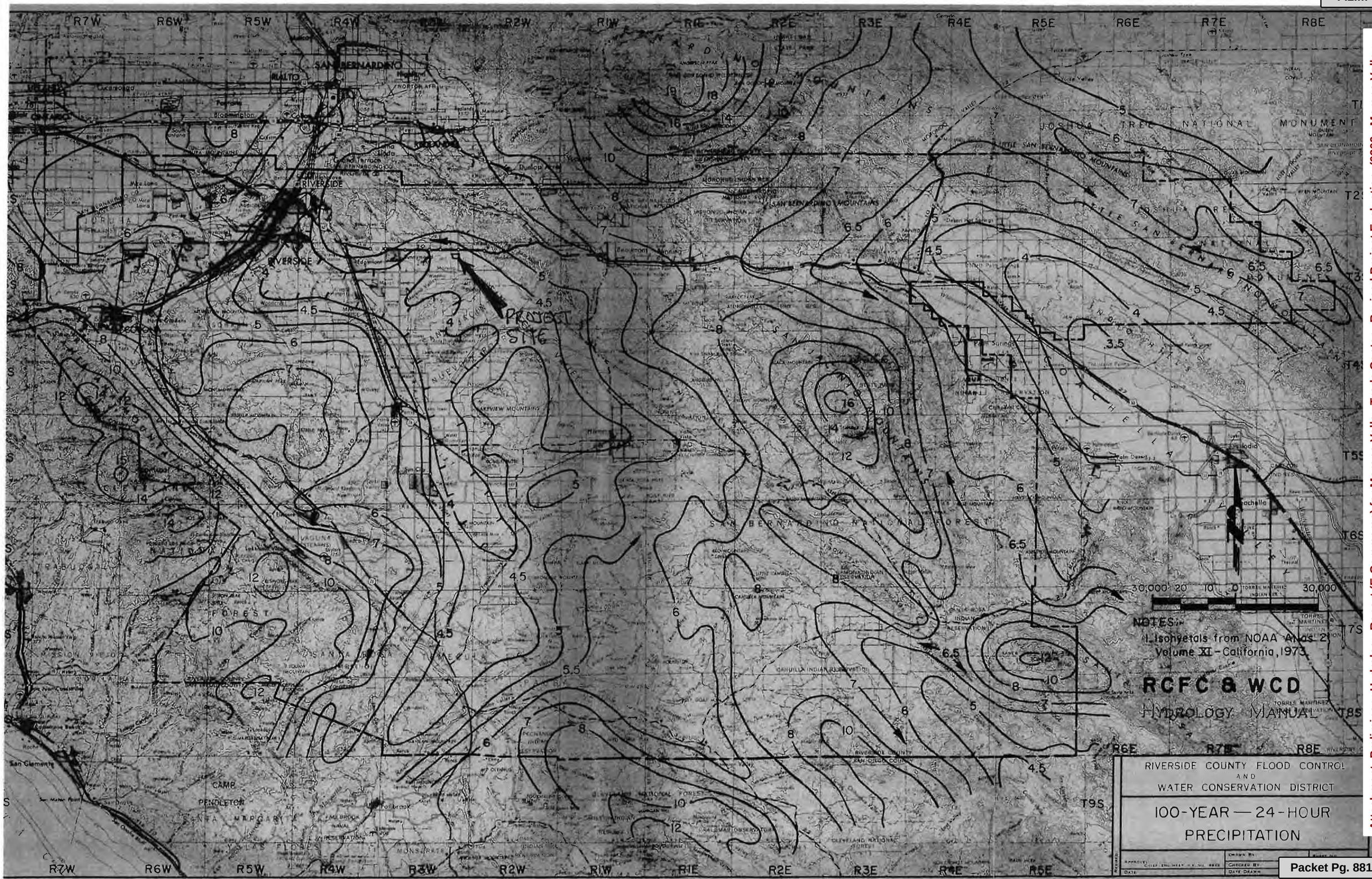
Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



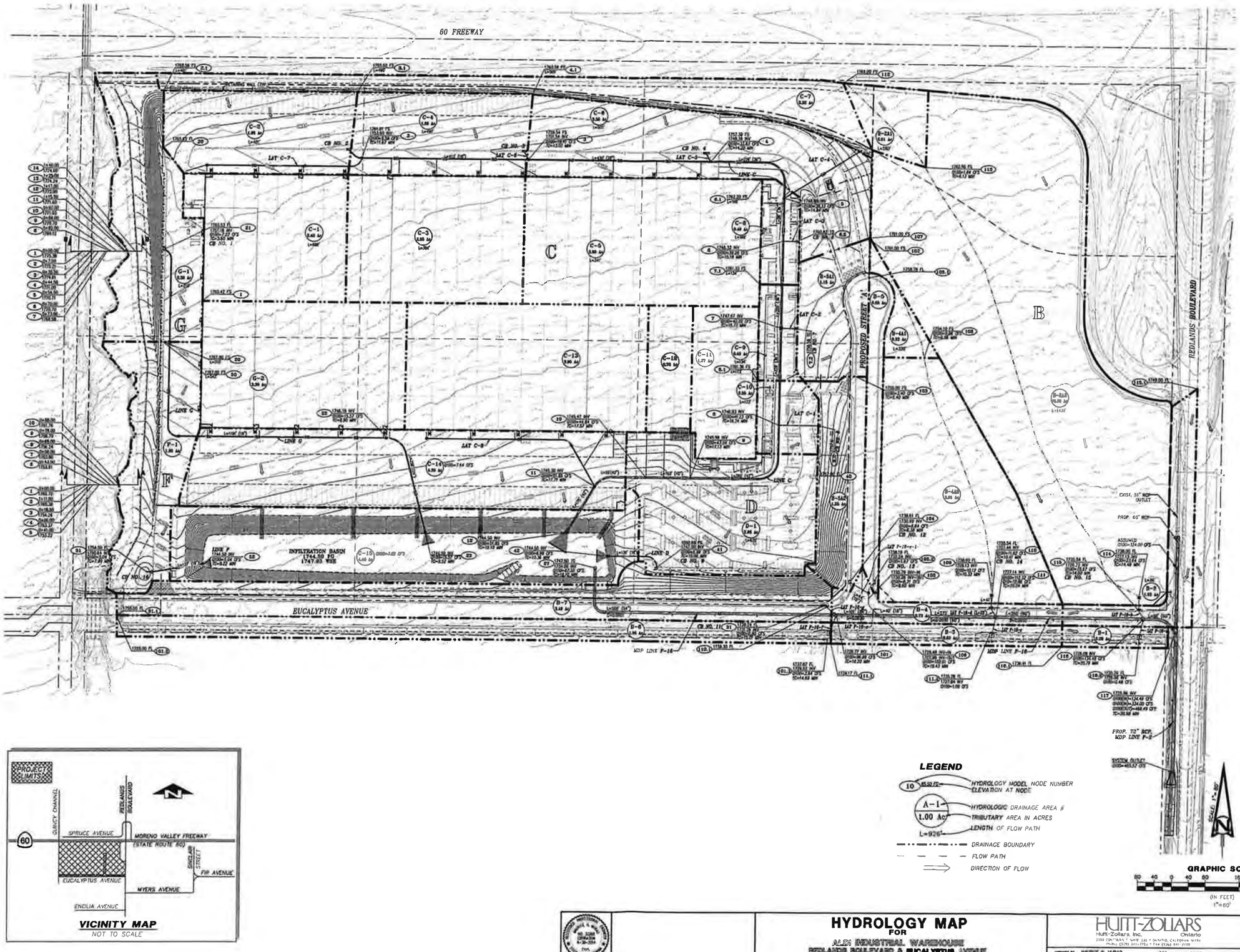
Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

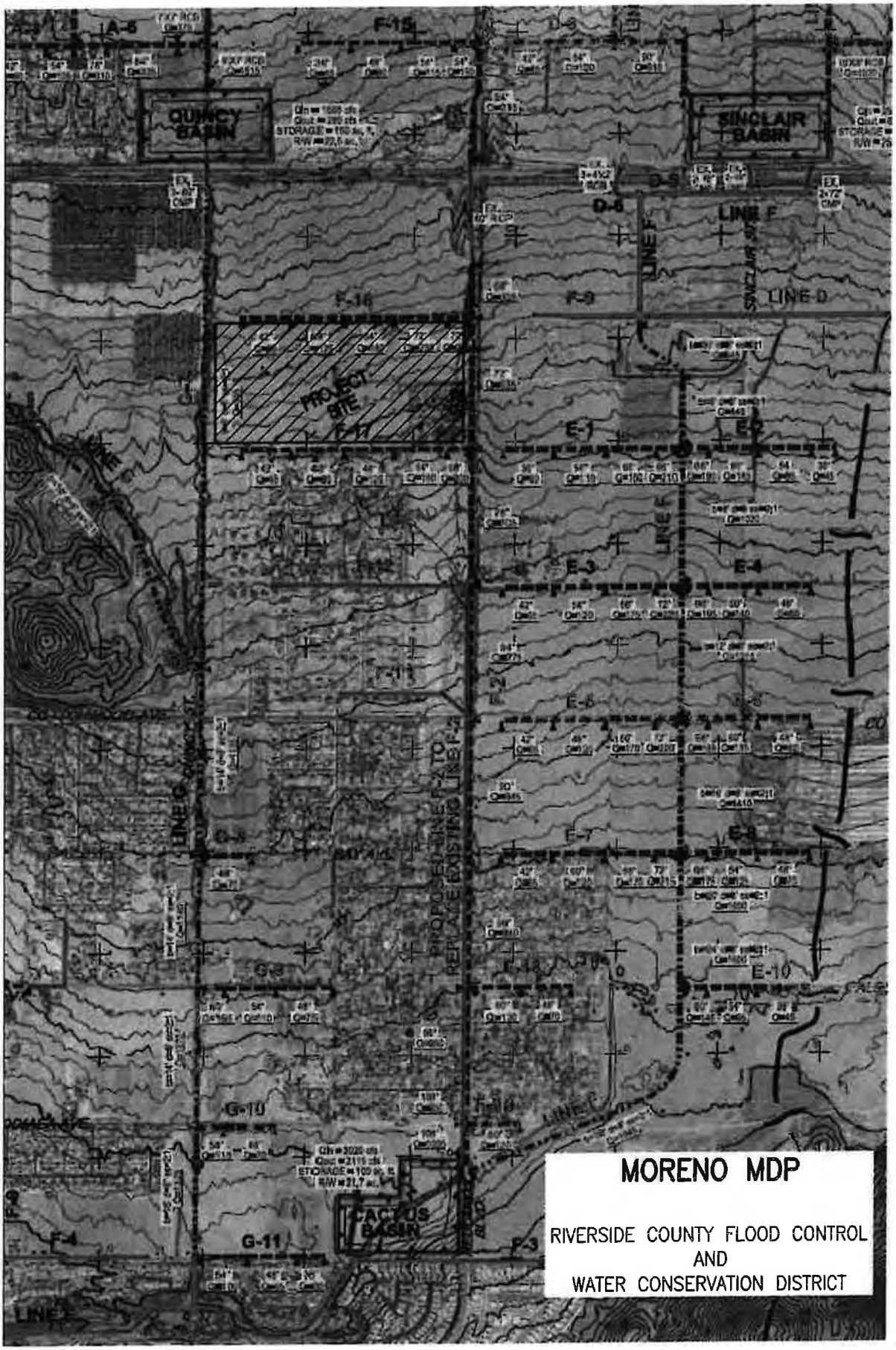


HYDROLOGY MAP
FOR
ALDI INDUSTRIAL WAREHOUSE
REDLANDS BOULEVARD & EUCALYPTUS AVENUE
CITY OF MORENO VALLEY

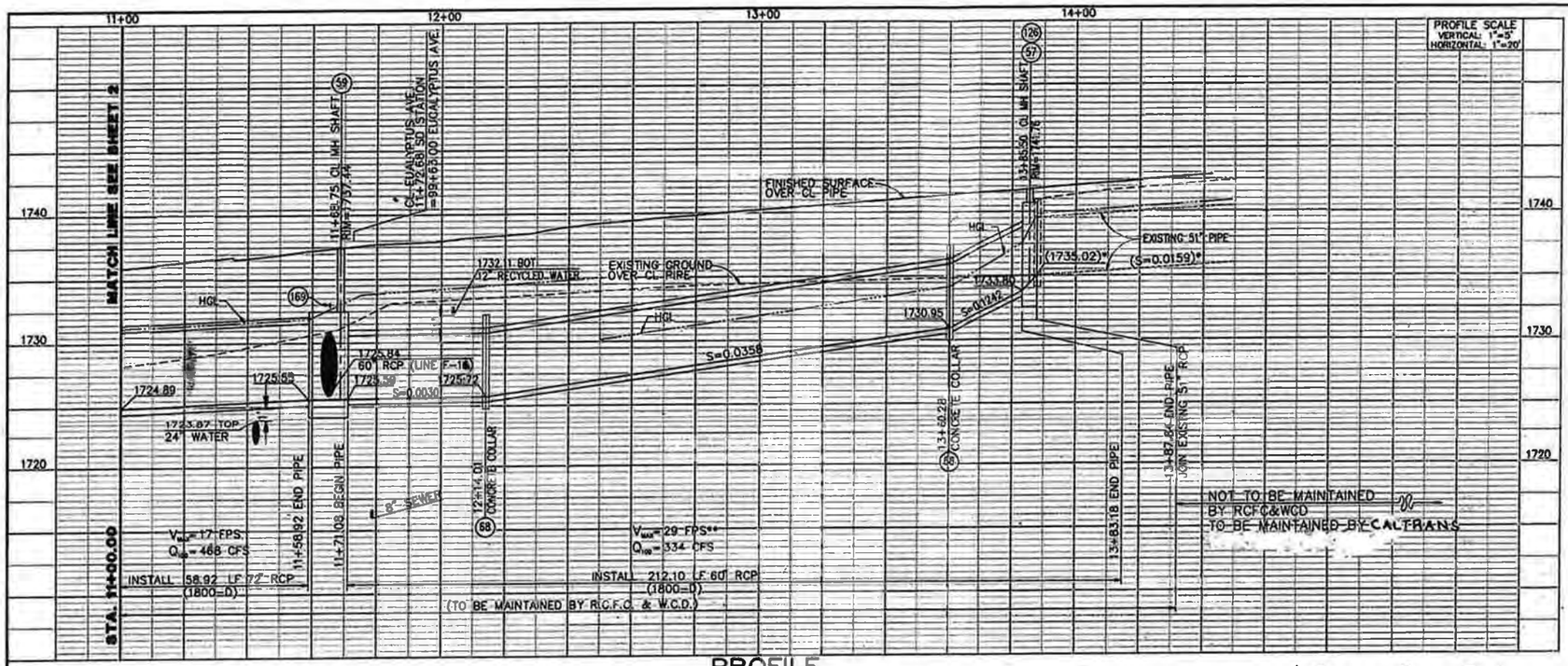
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario

M.H.M.
H-Z STAFF
M.H.M.
33386 6-30-14
SHEET

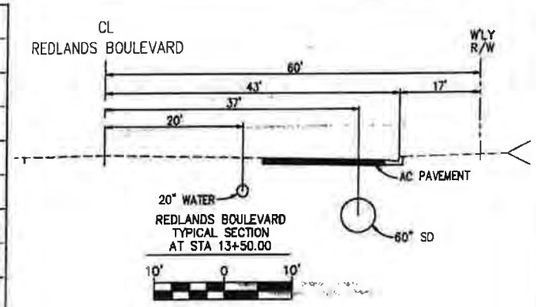
Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

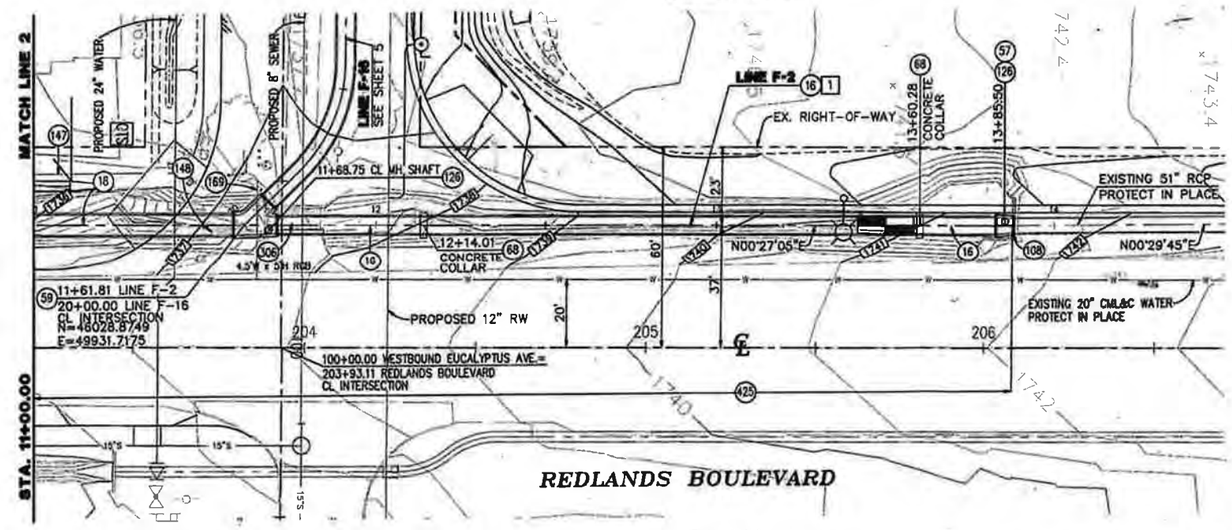


PROFILE



**** NOTE:**
THE CONCRETE COATING ON THE INSIDE OF ALL REINFORCED CONCRETE PIPES MUST BE INCREASED TO PROVIDE A MINIMUM OF 1-1/2 INCHES OVER THE REINFORCING AND INCREASED TO A MINIMUM OF 3-1/2 INCHES **OVER** REINFORCING FOR BOX CULVERT, WHEN DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'C=5,000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND AND F'C=6,000 PSI FOR VELOCITIES EXCEEDING 30 FEET PER SECOND.

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED



PLAN

CONSTRUCTION NOTES

(16) INSTALL 60" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(57) CONSTRUCT MANHOLE No.2 PER R.C.F.C. & WCD STD. PLAN MH252
(59) CONSTRUCT MANHOLE No.4 PER R.C.F.C. & WCD STD. PLAN MH254
(68) CONSTRUCT CONCRETE COLLAR FOR RCP PER R.C.F.C. & WCD STD. PLAN M803
(108) REMOVE EXISTING HEADWALL STRUCTURE
(126) ADJUST MANHOLE RIM TO GRADE AFTER FINAL SURFACE HAS BEEN INSTALLED
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(148) PLUG EXISTING UTILITY AT LOCATION SHOWN (COORDINATE WITH OWNER OF UTILITY)
(169) LOWER OR RAISE EXISTING WATER LINE TO EMWD STANDARD SPECIFICATION TO CLEAR PROPOSED STORM DRAIN PIPING
(306) REMOVE EXISTING CULVERT
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL

MANHOLE DATA TABLE

S.D. MAINLINE STA.	STRUCTURE TYPE	LINE	ANGLE "A"	B	C	D1	D2	EL. S	EL. R
11+61.8	MH NO. 4	F-16	45°00'00"	60"	5.5'	66"	72"	1725.84	1725.86

COURSE DATA

	BEARING	DISTANCE
1	N00°27'05"E	553.17'

20 0 20

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

PA08-0097 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA08-0022 (TENTATIVE PARCEL MAP)

CITY OF MORENO VALLEY APPROVALS
PA08-0022 CITY ID# 4898

RECOMMENDED BY: Hoangnga Cerda 3/5/14
for PRDU KUMAR
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52483 DATE

APPROVED BY: 3/10/14
ARNAB R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51516 DATE

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PPRP AND MLPP BEING NORTH 53°20'11.0" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NAVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER No. 33366 EXPIRATION 6-30-2014 CIVIL STATE OF CALIFORNIA

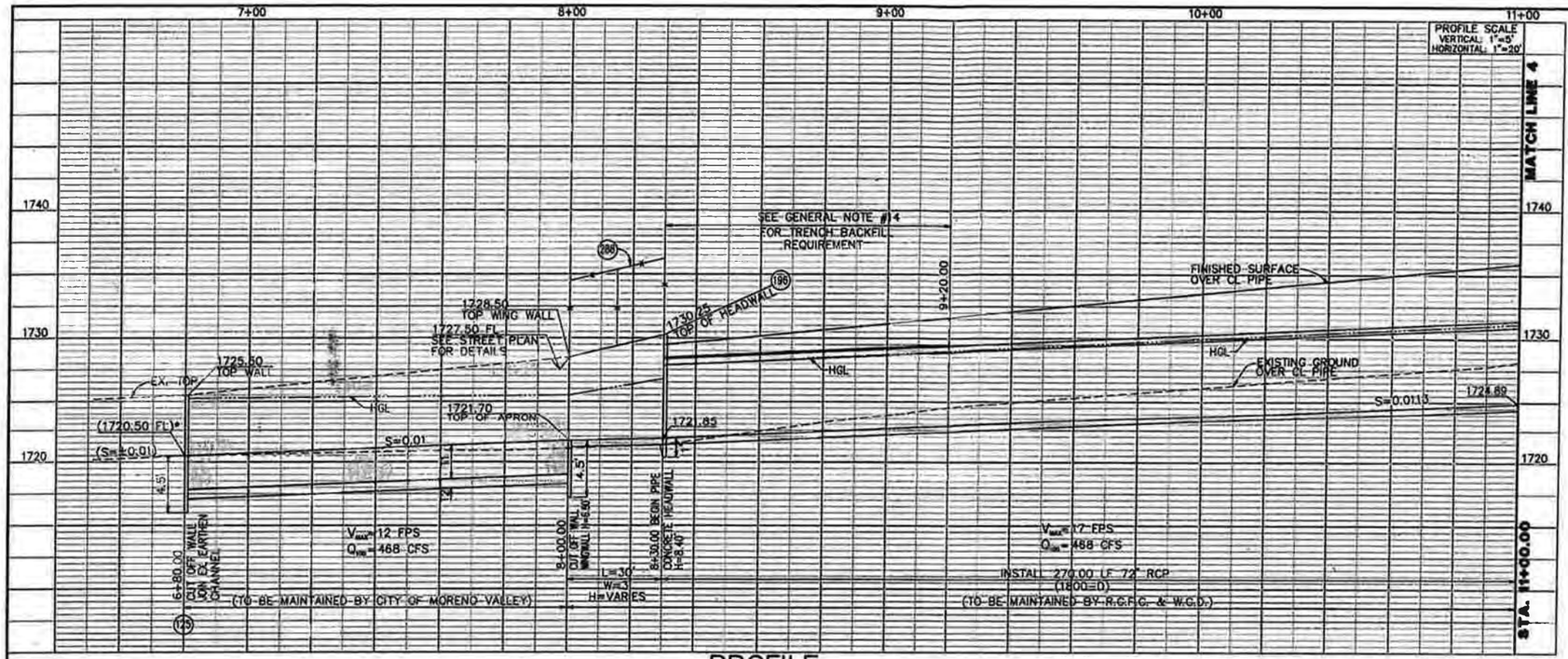
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 3/10/14

RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 3/7/14
APPROVED BY: DATE: 5/8/2014

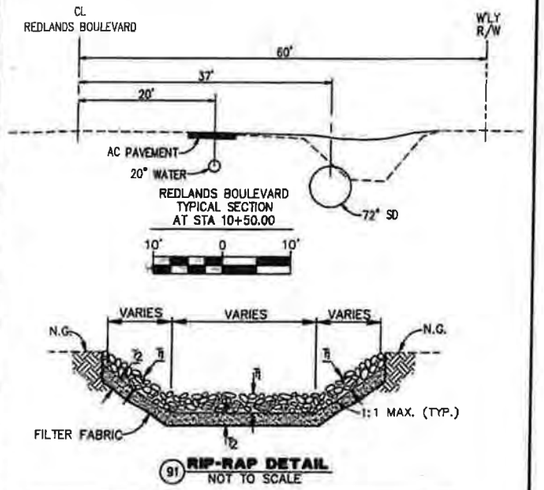
MORENO MDP LINE F-2
11+00.00 TO 13+87.83

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 4 OF 11

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



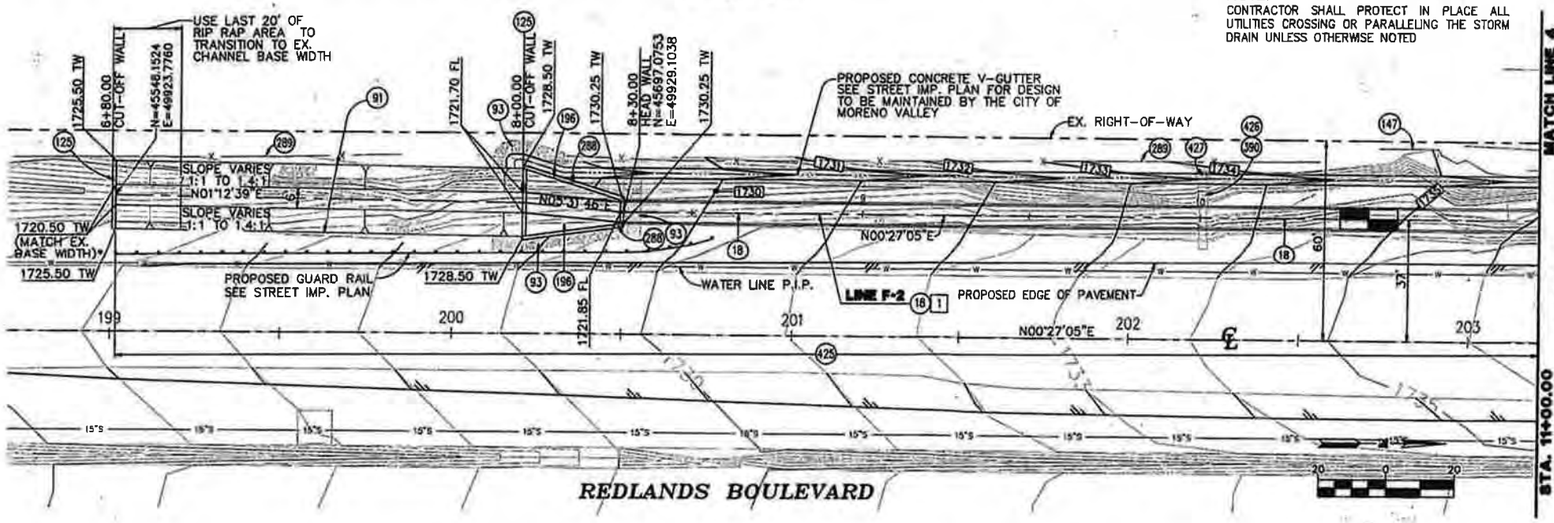
PROFILE



(91) RIP-RAP DETAIL
NOT TO SCALE

RIP-RAP DATA				
LOCATION	V_{AVG} (FPS)	T_1 (FT)	T_2 (FT)	CUTOFF WALL
LINE F-2 OUTLET	10-12	32" 1/4 TON	9" NO. 2 BACKING	54"

NOTES:
1. USE CALTRANS SPECIFICATIONS, SECTION 72-2.02 FOR ROCK SIZE BY RSP-CLASS AND MATERIAL PROPERTIES.
2. USE MIRAFI 1100N OR APPROVED EQUAL PER CALTRANS SECTION 88-1.04.
3. PLACEMENT METHOD TYPE B PER CALTRANS SPECIFICATIONS.
4. RIP-RAP LAYERING PER CALTRANS HIGHWAY DESIGN MANUAL TABLE 873.3 B.



PLAN

NOTE:
CONTRACTOR SHALL PROTECT IN PLACE ALL UTILITIES CROSSING OR PARALLELING THE STORM DRAIN UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES

(18) INSTALL 72" RCP (D-LOAD AND PROFILE AS SHOWN ON PLANS)
(91) INSTALL GROUTED RIP-RAP PER CALTRANS SPECIFICATIONS AND RIP-RAP DATA TABLE ON THIS SHEET
(93) INSTALL GROUTED RIP RAP PER DETAIL ON SHEET 6 TO BE MAINTAINED BY CITY OF MORENO VALLEY
(125) CONSTRUCT RIP RAP PCC CUT-OFF WALL PER DETAIL ON SHEET 2
(147) PROTECT OR RELOCATE EXISTING IRRIGATION PIPE AS NECESSARY TO CONSTRUCT STORM DRAIN
(196) INSTALL PIPE CULVERT HEADWALL, WINGWALL & APRON PER CALTRANS STANDARD PLAN D86-B (SEE SHEET 2 FOR LAYOUT DETAIL)
(288) INSTALL CHAIN LINK FENCE PER R.C.F.C. & W.C.D. STD. PLAN NO. M801
(289) REMOVE, SALVAGE & RE-INSTALL EXISTING FENCE ON R/W AFTER PROPOSED IMPROVEMENTS HAVE BEEN INSTALLED
(390) EXISTING CONCRETE APRON/ENCASEMENT TO BE REMOVED
(425) REMOVE ANY EXISTING DEBRIS OR CONCRETE PIPE FROM EXISTING CHANNEL
(426) RELOCATE, LOWER OR RAISE EXISTING UTILITY TO CLEAR PROPOSED STORM DRAIN (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)
(427) RELOCATE EXISTING UTILITY BOX AND APPURTENANCES (CONTRACTOR TO FIELD VERIFY & COORDINATE WITH OWNER OF UTILITY)

PA08-0087 (PLOT PLAN)
P13-111 (AMENDED PLOT PLAN)
PA09-0022 (TENTATIVE PARCEL MAP)

COURSE DATA		
	BEARING	DISTANCE
1	N00°27'05"E	553.17'

* NOTE:
HORIZONTAL AND VERTICAL LOCATIONS TO BE VERIFIED IN THE FIELD AND ENGINEER NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

CITY OF MORENO VALLEY APPROVALS
PA09-0022 CITY ID# 4866

RECOMMEND BY: [signature] 2/13/14 DATE
for PRIM ROMAN
DEPT. PUBLIC WORKS DIR./ASST. CITY ENGINEER
R.C.E. NO. C52461

APPROVED BY: [signature] 3/4/14 DATE
AHMAD R. ANSARI
PUBLIC WORKS DIRECTOR/CITY ENGINEER
R.C.E. NO. C51358

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services.

BASIS OF BEARINGS:
BEARINGS SHOWN HEREON ARE BASED ON THE BEARING BETWEEN THE CALIFORNIA SPATIAL REFERENCE CENTER (CSRC) CONTINUOUS OPERATING REFERENCE STATIONS (CORS) PVEP AND MJP0 BEING NORTH 33°20'17.66" WEST PER RECORDS ON FILE WITH THE CSRC.

BENCH MARK: IVF55 ELEVATION 1785.67
LOCATION
BRASS DISK IN TOP OF HEADWALL, NORTHWEST CORNER REDLANDS BOULEVARD AND SPRUCE AVENUE. (NGVD29 DATUM)

REVISIONS	ENGINEER		RCFC/	
REF. DESCRIPTION	APPR.	DATE	APPR.	DATE

DESIGNED BY: M.H.M.
DRAWN BY: H-Z STAFF
DATE DRAWN: 03-2013
CHECKED BY: M.H.M.

REGISTERED PROFESSIONAL ENGINEER MAURICE H. MURAD No. 33366 EXPIRATION 6-30-2014 CIVIL STATE OF CALIFORNIA

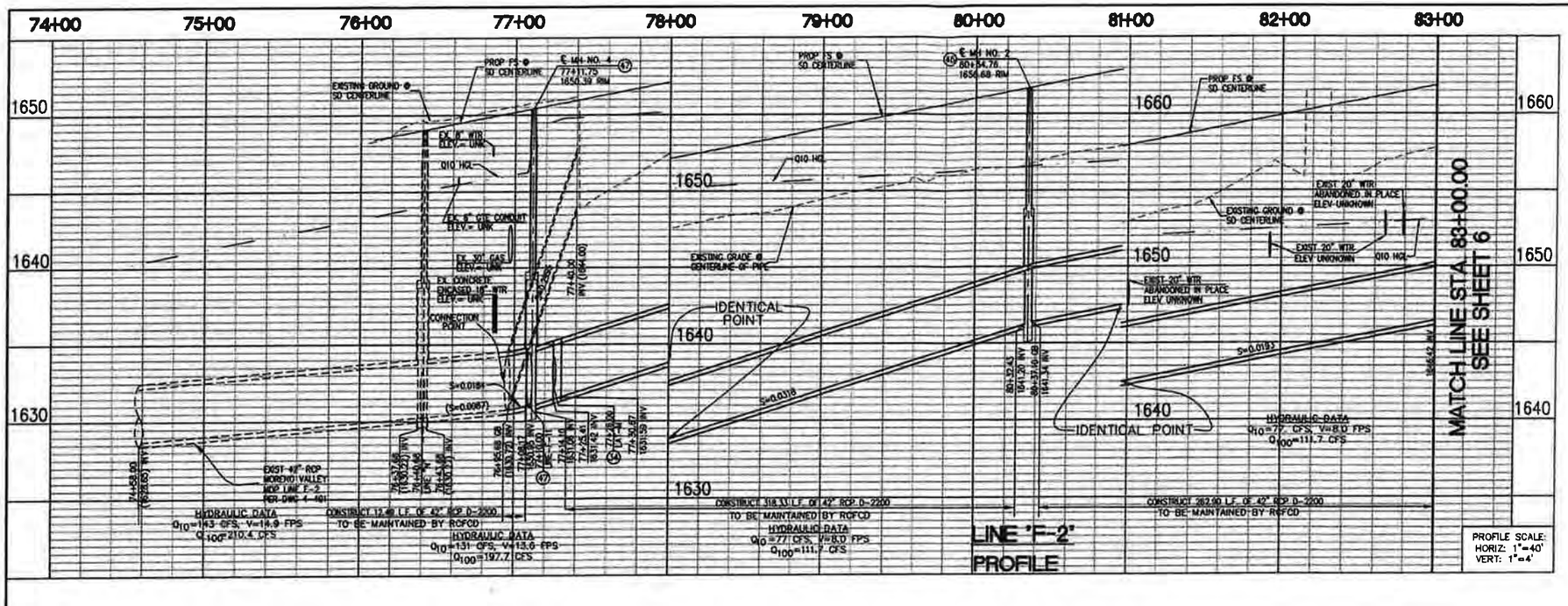
HUITT-ZOLLARS
Huitt-Zollars, Inc. Ontario
3990 CONCOURS, SUITE 330 • ONTARIO, CALIFORNIA 91764 • (909) 941-7700
PREPARED UNDER THE SUPERVISION OF: MAURICE H. MURAD
R.C.E. 33366 EXPIRES 6-30-14 DATE 2/14/14

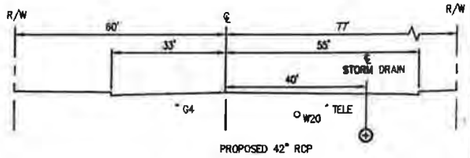
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: [signature]
DATE: 5/7/14
APPROVED BY: [signature]
DATE: 5/8/2014

MORENO MDP LINE F-2
6+80.00 TO 11+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 4-1068
SHEET NO. 3 OF 11

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley





SECTION AT STATION 79+00.00

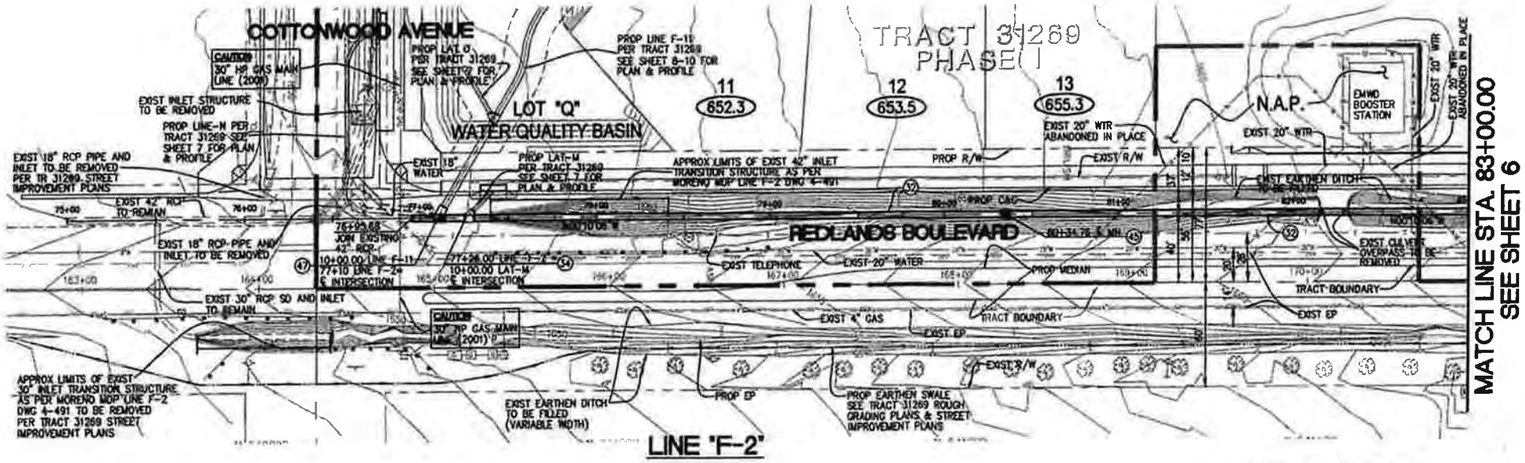
TYPICAL FROM STA. 76+95.68 TO STA. 91+10.00

INFORMATIONAL NOTE

ALL X-SECTION TAKEN LOOKING DOWNSTREAM

20' 0 20'

DRACAEA AVE



LINE "F-2" PLAN

GRAPHIC SCALE

0 20 40 80 120 160

SCALE 1" = 40'

AS BUILT

APPROVED BY: [signature]

DATE 4-24-08

CONSTRUCTION NOTES

(32) CONSTRUCT 42" RCP (SEE PROFILE FOR D-LOAD)
(34) CONSTRUCT JUNCTION STRUCTURE NO.2 PER RCFCD STD DWG JS 227
(45) CONSTRUCT MANHOLE NO. 2 PER RCFCD STD DWG MH 252
(47) CONSTRUCT MANHOLE NO. 4 PER RCFCD STD DWG MH 254

STORM DRAIN NOTES:

1. EXISTING MORENO VALLEY MDP LINE-F2 IS DESIGNED TO CONVEY ONLY THE 10-YR STORM EVENT. THEREFORE THE HGL FOR THE 10-YR STORM EVENT IS SHOWN FOR MDP LINE F-11, MDP LINE F-12, AND ALL IN-TRACT STORM DRAIN. THE 100-YR STORM EVENT IS CONTAINED WITH-IN THE STREET R/W
2. FOR ALL STREET CATCH BASIN(S) AND DEPRESSION(S) SEE TRACT 31269 STREET IMPROVEMENT PLANS .

Don't Dig...Until You Call U.S.A. Toll Free 1-800-227-2600 for the location of buried utility lines. Don't disrupt vital services. TWO WORKING DAYS BEFORE YOU DIG

BENCH MARK

F.D BRASS DISK SET IN CONCRETE "M-40-4 RESET 1976" PER RIVERSIDE COUNTY RECORDS. LOCATED ON THE SOUTHEAST CORNER OF ALESSANDRO BLVD. AND NASON STREET AND IT IS 3 FEET WESTERLY OF POWER POLE NUMBER GT70306. ELEVATION: 1588.421

REF.	REVISIONS	ENGINEER	RCFC/
	DESCRIPTION	APPR. DATE	APPR. DATE

DESIGNED BY: F.M.
DRAWN BY: P.B.
DATE DRAWN: 05/04

REGISTERED PROFESSIONAL ENGINEER RANDAL L. STREETER No. 25083 EXP. 12/31/05 CIVIL STATE OF CALIFORNIA

ADAMS • STREETER CIVIL ENGINEERS, INC.

PREPARED UNDER THE SUPERVISION OF: Randal L. Streeter R.C.E. NO. 25083 DATE: 2/6/05
RANDAL L. STREETER EXP. 12/31/05

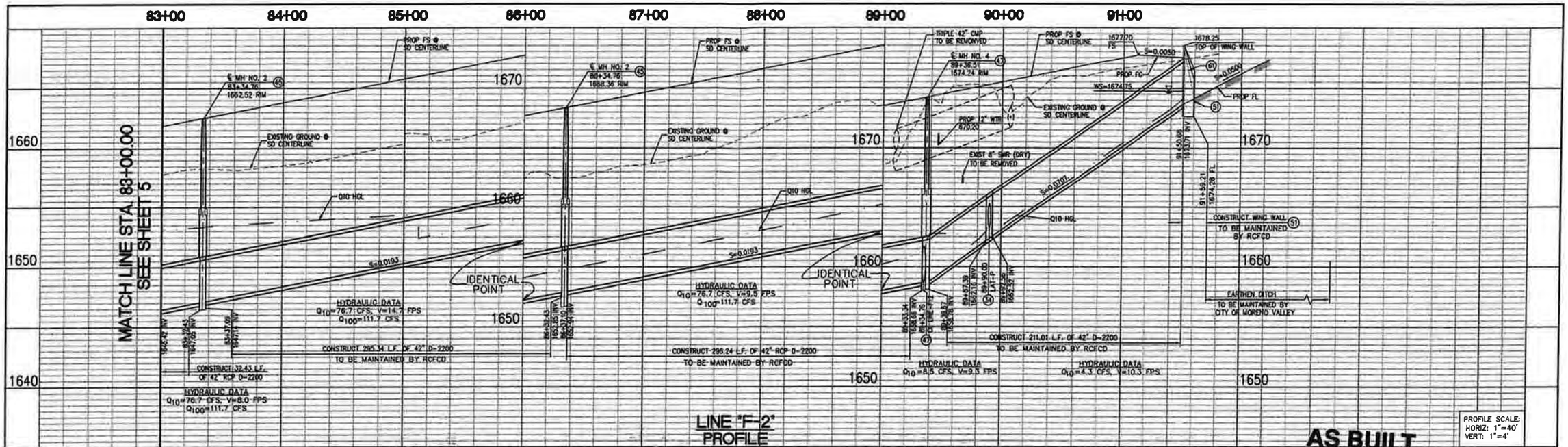
RIVERSIDE COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT
RECOMMENDED FOR APPROVAL BY: DATE: 8/3/05
APPROVED BY: DATE: 8-4-2005

CITY OF MORENO VALLEY PUBLIC WORKS DEPARTMENT
APPROVED BY: TRENT O. PULLIAM DATE: 3/25/05
RECOMMENDED DATE:

MORENO MASTER DRAINAGE PLAN
LINE "F-2"
STA. 75+00.00 TO 83+00.00

PROJECT NO. 4-0-00400
DRAWING NO. 04-847
SHEET NO. 5 OF 14

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

JASON E. UHLEY
General Manager-Chief Engineer

1995 MARKET STREET
RIVERSIDE, CA 92501
951.955.1200
951.788.9965 FAX
www.rcflood.org

RIVERSIDE COUNTY FLOOD CONTROL
AND WATER CONSERVATION DISTRICT
December 23, 2020

Mr. Michael D Lloyd
Assistant City Engineer
Engineering Division
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92552-0805

Dear Mr. Lloyd:

Re: Thienes Engineering PEN 19-0193
Account No. 137-0-3-75325

As requested by the City of Moreno Valley (City), the Riverside County Flood Control District (District) received the following for review on December 1, 2020:

1. Letter from Moreno Valley, dated November 12, 2020
2. Preliminary Hydrology Calculations, dated October 27, 2020
3. Preliminary Grading Plan (13 sheets, with different dates)
4. PWQMP Report, dated March 5, 2020

The District has reviewed these documents as requested in the City's letter, and has also tried to identify potential areas of concern, and has the following comments:

Line-16

The City stated in their request that the developer wished to "eliminate the proposed westerly portion of Moreno Master Drainage Plan (MMDP) Line F-16 based on the premise that it is unnecessary to construct due to the existing development to the north of the MMDP line." The existing development (PM36207 on APN 488-330-040) constructed a basin which outlets to a pipe in Eucalyptus Avenue which connect to Line F-2 in Redland Boulevard. The pipe was previously accepted for maintenance by the District. Since the pipe and basin together collect and convey the same area that was tabled to Line F-16, it is our opinion that, so long as the basin is in place, the existing facility is functionally equivalent to Line F-16, and the remaining unconstructed portion is not necessary to provide flood protection.

Line F-17

The City stated in their request that the developer wished to "eliminate the proposed MMDP Line F-17, based on the premise that it is unnecessary to construct due to the proposed developer's water quality and detention facilities." The Moreno MDP proposed Line F-17 as a 42 to 60 inch RCP conveying 200 cfs to Line F-2. The developer proposed an onsite basin and a 42" HDPE within the development conveying on site flows to Line F-2, and a catch basin in Encelia conveying street runoff to Line F-2. Since these facilities together collect and convey the same area that was tabled to Line F-17, it is our opinion that the existing facility is functionally equivalent to Line F-17.

It should be noted that since the proposed pipe is within private right of way and is proposed as HDPE, the District will not maintain it. The basin and storm drain facility will be developer maintained. However, if the design is modified to meet District standards, a public agency could maintain the storm drain and/or basin. At a minimum, the storm drain would need to be moved to the street and constructing with RCP instead of HDPE, and the basin would need to handle water quality and the 100-year route down separately and otherwise be designed to meet out meet District requirements for Operation and Maintenance. See increased runoff criteria and the LID BMP handbook for basin design requirements. Link: http://rcflood.org/npdes/LIDBMP.aspx

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Also note that Line F-17 is not part of the Moreno Area Drainage Plan (ADP) and therefore is not eligible for ADP credit.

Line F-2

The developer is proposing to build a portion of Line F-2 in Redlands Avenue. The MMDP proposed Line F-2 between Eucalyptus and Encelia as a 72" RCP conveying 100-year flowrate of 535 cfs. The developer's plans don't provide details for their proposed segment of Line F-2, or even the limits of what they will be constructing, but the hydrology map identifies it as a 72" RCP. The District has not received enough information to comment on this facility. It should be noted that the existing portion of Line F-2 downstream of this project is not sized to convey the 100 year flowrate, and the MMDP proposes that it will be improved or replaced in the future to increase the current 10-year capacity to the 100 year storm.

Quincy Channel / Line G-7

The developer is proposing vinyl sheetpile along the natural Quincy wash, which the MMDP proposes as a trapezoidal channel called Line G-7. The sheetpile is proposed some distance outside of the limits of the MMDP proposed channel. While the sheetpile may protect the site from erosion, the capacity of the existing wash is unknown. The site may not be protected from the 100-year storm until the ultimate channel is constructed or erosion occurs, and therefore may not be functionally equivalent in the interim. Additionally, it should be noted that the District will not maintain the proposed sheet piles.

Hydrology Report

The City should be aware of the following District comments on the developer's hydrology study dated October 27, 2020.

1. The rainfall used should be consistent with those used in the Moreno MDP, which were based on the version of NOAA Atlas 14 that was available when the MMDP was updated. The MMDP report provides a table of rainfall values used.
2. The cover type used for node 200-204 "proposed" hydrology should be commercial cover or some other type with a high impervious percentage, since this area is proposed as a street.
3. AMC 3 was used for the 100-year basin hydrology. This is not typically recommended per the District's hydrology manual. This should be explained or corrected.

Any questions pertaining to this project may be directed to Kelly O'Sullivan of this office at 951-955-8851 or kosulliv@rivco.org.

Very truly yours,

Deborah de Chambeau

DEBORAH DE CHAMBEAU
Engineering Project Manager

cc: Kelly O'Sullivan, RCFC&WCD
Duke Aghaian, Thienes Engineering

SLJ:se

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX B

HYDROLOGY CALCULATIONS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                          *
* 100-YEAR STORM EVENT                                                  *
* EXISTING CONDITION (NODES 100-107)                                    *
 ************************************************************************

  FILE NAME: W:\3828\100XX.DAT
  TIME/DATE OF STUDY: 08:36 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH POOR COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   410.00
  UPSTREAM ELEVATION(FEET) =   1752.00
  DOWNSTREAM ELEVATION(FEET) =   1741.50
  ELEVATION DIFFERENCE(FEET) =     10.50
  TC = 0.533*[(  410.00**3)/(    10.50)]**.2 =   12.298
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.651
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6451
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      4.87
  TOTAL AREA(ACRES) =      2.85   TOTAL RUNOFF(CFS) =      4.87

****************************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  51
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1741.50  DOWNSTREAM(FEET) =   1732.00
  CHANNEL LENGTH THRU SUBAREA(FEET) =   400.00   CHANNEL SLOPE =  0.0237
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.990
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.186
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6085
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       7.84
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.15
  AVERAGE FLOW DEPTH(FEET) =   0.06   TRAVEL TIME(MIN.) =   5.78
  Tc(MIN.) =   18.08
  SUBAREA AREA(ACRES) =     4.40       SUBAREA RUNOFF(CFS) =    5.85
  TOTAL AREA(ACRES) =        7.2         PEAK FLOW RATE(CFS) =      10.73

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.07   FLOW VELOCITY(FEET/SEC.) =   1.36
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     810.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  51
----------------------------------------------------------------------------
  >>>>>COMPUTE TRAPEZOIDAL CHANNEL FLOW<<<<<
  >>>>>TRAVELTIME THRU SUBAREA (EXISTING ELEMENT)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =   1732.00  DOWNSTREAM(FEET) =   1722.60
  CHANNEL LENGTH THRU SUBAREA(FEET) =   410.00   CHANNEL SLOPE =  0.0229
  CHANNEL BASE(FEET) =  100.00   "Z" FACTOR =  99.900
  MANNING'S FACTOR = 0.030   MAXIMUM DEPTH(FEET) =   1.00
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.957
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5862
  SOIL CLASSIFICATION IS "B"
  TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      16.05
  TRAVEL TIME THRU SUBAREA BASED ON VELOCITY(FEET/SEC.) =   1.52
  AVERAGE FLOW DEPTH(FEET) =   0.10   TRAVEL TIME(MIN.) =   4.50
  Tc(MIN.) =   22.57
  SUBAREA AREA(ACRES) =     9.25       SUBAREA RUNOFF(CFS) =   10.61
  TOTAL AREA(ACRES) =       16.5         PEAK FLOW RATE(CFS) =      21.34

  END OF SUBAREA CHANNEL FLOW HYDRAULICS:
  DEPTH(FEET) =  0.12   FLOW VELOCITY(FEET/SEC.) =   1.63
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =    1220.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1722.00
  STREET LENGTH(FEET) =   275.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      21.87
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.73
    HALFSTREET FLOOD WIDTH(FEET) =   28.63
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.61
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.91
  STREET FLOW TRAVEL TIME(MIN.) =   1.76   Tc(MIN.) =   24.33
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.885
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8678
  SOIL CLASSIFICATION IS "B"
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                100XX
  SUBAREA AREA(ACRES) =    0.65      SUBAREA RUNOFF(CFS) =    1.06
  TOTAL AREA(ACRES) =       17.1        PEAK FLOW RATE(CFS) =      22.40

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.74   HALFSTREET FLOOD WIDTH(FEET) =  28.87
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.93
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1495.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1722.00  DOWNSTREAM ELEVATION(FEET) = 1715.80
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      22.93
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.66
    HALFSTREET FLOOD WIDTH(FEET) =   24.94
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    3.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    2.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.52   Tc(MIN.) =   27.85
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70      SUBAREA RUNOFF(CFS) =    1.07
  TOTAL AREA(ACRES) =       17.9        PEAK FLOW RATE(CFS) =      23.47

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.66   HALFSTREET FLOOD WIDTH(FEET) =  25.12
  FLOW VELOCITY(FEET/SEC.) =  3.61   DEPTH*VELOCITY(FT*FT/SEC.) =   2.39
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    2250.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.762
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8664
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   17.25   SUBAREA RUNOFF(CFS) =   26.33
  TOTAL AREA(ACRES) =       35.1   TOTAL RUNOFF(CFS) =      49.80
  TC(MIN.) =   27.85

****************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1715.80  DOWNSTREAM ELEVATION(FEET) = 1709.80
  STREET LENGTH(FEET) =   620.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      50.24
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.58
    SPLIT DEPTH(FEET) =    0.35   SPLIT FLOOD WIDTH(FEET) =    9.53
```

```
                                                                  100XX
    SPLIT FLOW(CFS) =    2.48   SPLIT VELOCITY(FEET/SEC.) =    2.26
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.58
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.65
  STREET FLOW TRAVEL TIME(MIN.) =   2.26   Tc(MIN.) =   30.10
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.88
  TOTAL AREA(ACRES) =       35.7        PEAK FLOW RATE(CFS) =      50.68

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.58   DEPTH*VELOCITY(FT*FT/SEC.) =   3.65
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    2870.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.694
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8656
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   21.50   SUBAREA RUNOFF(CFS) =   31.53
  TOTAL AREA(ACRES) =       57.2   TOTAL RUNOFF(CFS) =      82.21
  TC(MIN.) =   30.10

****************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1709.80  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   445.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  16.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =      82.64
    ***STREET FLOW SPLITS OVER STREET-CROWN***
    FULL DEPTH(FEET) =    0.80   FLOOD WIDTH(FEET) =   32.00
    FULL HALF-STREET VELOCITY(FEET/SEC.) =    4.30
    SPLIT DEPTH(FEET) =    0.76   SPLIT FLOOD WIDTH(FEET) =   29.98
    SPLIT FLOW(CFS) =   37.78   SPLIT VELOCITY(FEET/SEC.) =    4.12
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
         NOTE: STREET FLOW EXCEEDS TOP OF CURB.
         THE FOLLOWING STREET FLOW RESULTS ARE BASED ON THE ASSUMPTION
         THAT NEGLIBLE FLOW OCCURS OUTSIDE OF THE STREET CHANNEL.
         THAT IS, ALL FLOW ALONG THE PARKWAY, ETC., IS NEGLECTED.
    STREET FLOW DEPTH(FEET) =  0.80
    HALFSTREET FLOOD WIDTH(FEET) =   32.00
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.30
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    3.43
  STREET FLOW TRAVEL TIME(MIN.) =   1.72   Tc(MIN.) =   31.83
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.60      SUBAREA RUNOFF(CFS) =    0.86
  TOTAL AREA(ACRES) =       57.8        PEAK FLOW RATE(CFS) =      83.06

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.80   HALFSTREET FLOOD WIDTH(FEET) =  32.00
  FLOW VELOCITY(FEET/SEC.) =  4.30   DEPTH*VELOCITY(FT*FT/SEC.) =   3.43
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    3315.00 FEET.
```

100XX

```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =   16.00   SUBAREA RUNOFF(CFS) =   22.80
  TOTAL AREA(ACRES) =       73.8   TOTAL RUNOFF(CFS) =     105.87
  TC(MIN.) =   31.83

****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.648
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8650
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.80   SUBAREA RUNOFF(CFS) =    2.57
  TOTAL AREA(ACRES) =       75.6   TOTAL RUNOFF(CFS) =     108.43
  TC(MIN.) =   31.83
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       75.6  TC(MIN.) =     31.83
  PEAK FLOW RATE(CFS)   =     108.43
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
       RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* EXISTING CONDITION (NODES 110-112)                                  *
 **********************************************************************

  FILE NAME: W:\3828\110XX.DAT
  TIME/DATE OF STUDY: 09:40 03/25/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   875.00
  UPSTREAM ELEVATION(FEET) =   1755.15
  DOWNSTREAM ELEVATION(FEET) =   1747.00
  ELEVATION DIFFERENCE(FEET) =      8.15
  TC = 0.303*[(  875.00**3)/(     8.15)]**.2 =   11.603
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.729
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8750
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.39
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.39

**************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

110XX

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1747.00  DOWNSTREAM ELEVATION(FEET) = 1737.88
  STREET LENGTH(FEET) =   875.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  19.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.31
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.37
    HALFSTREET FLOOD WIDTH(FEET) =   10.68
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.92
  STREET FLOW TRAVEL TIME(MIN.) =   5.86   Tc(MIN.) =   17.47
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.224
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8712
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.95      SUBAREA RUNOFF(CFS) =    1.84
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.23

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  11.95
  FLOW VELOCITY(FEET/SEC.) =  2.61   DEPTH*VELOCITY(FT*FT/SEC.) =   1.04
  LONGEST FLOWPATH FROM NODE    110.00 TO NODE    112.00 =    1750.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     17.47
  PEAK FLOW RATE(CFS)   =       4.23
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                          *
* 100-YEAR STORM EVENT                                                  *
* EXISTING CONDITION (NODES 120-121)                                    *
 ************************************************************************

  FILE NAME: W:\3828\120XX.DAT
  TIME/DATE OF STUDY: 10:39 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    120.00 TO NODE    121.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   390.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1734.82
  ELEVATION DIFFERENCE(FEET) =      5.18
  TC = 0.303*[(  390.00**3)/(     5.18)]**.2 =    7.823
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.324
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8784
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.61
  TOTAL AREA(ACRES) =      0.55   TOTAL RUNOFF(CFS) =      1.61
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.6  TC(MIN.) =      7.82
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

120XX

PEAK FLOW RATE(CFS) = 1.61

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************* DESCRIPTION OF STUDY *************************
* TEI JOB 3828                                                          *
* 100-YEAR STORM EVENT                                                  *
* EXISTING CONDITION (NODES 130-131)                                    *
 ************************************************************************

  FILE NAME: W:\3828\130XX.DAT
  TIME/DATE OF STUDY: 11:50 03/25/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    130.00 TO NODE    131.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   175.00
  UPSTREAM ELEVATION(FEET) =   1737.80
  DOWNSTREAM ELEVATION(FEET) =   1734.83
  ELEVATION DIFFERENCE(FEET) =      2.97
  TC = 0.303*[(  175.00**3)/(     2.97)]**.2 =    5.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8813
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      0.88
  TOTAL AREA(ACRES) =      0.25   TOTAL RUNOFF(CFS) =      0.88
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        0.2  TC(MIN.) =      5.41
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

130XX

PEAK FLOW RATE(CFS) = 0.88

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
______________________________________________________________________
**********************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                        THIENES ENGINEERING, INC.
                           14349 FIRESTONE BLVD
                           LA MIRIADA, CA 90638
                               714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                 *
* PROPOSED CONDITIONS                                                 *
* 100-YEAR STORM EVENT                                                *
 **********************************************************************

  FILE NAME: W:\3828\P100.DAT
  TIME/DATE OF STUDY: 09:52 04/05/2022
----------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**********************************************************************
  FLOW PROCESS FROM NODE    100.00 TO NODE    101.00 IS CODE =  21
----------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
======================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   620.00
  UPSTREAM ELEVATION(FEET) =   1754.90
  DOWNSTREAM ELEVATION(FEET) =   1727.54
  ELEVATION DIFFERENCE(FEET) =     27.36
  TC = 0.303*[(  620.00**3)/(    27.36)]**.2 =    7.406
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.416
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8789
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =     18.29
  TOTAL AREA(ACRES) =      6.09   TOTAL RUNOFF(CFS) =     18.29

**********************************************************************
  FLOW PROCESS FROM NODE    101.00 TO NODE    102.00 IS CODE =  31
----------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.00  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =   193.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.31
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      18.29
  PIPE TRAVEL TIME(MIN.) =   0.75    Tc(MIN.) =    8.15
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    102.00 =     813.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    102.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.256
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8781
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.75
  TOTAL AREA(ACRES) =        8.1   TOTAL RUNOFF(CFS) =      24.03
  TC(MIN.) =    8.15

****************************************************************************
  FLOW PROCESS FROM NODE    102.00 TO NODE    103.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1723.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   5.70
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      24.03
  PIPE TRAVEL TIME(MIN.) =   0.44    Tc(MIN.) =    8.59
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    103.00 =     963.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    103.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.172
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8777
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.60
  TOTAL AREA(ACRES) =       10.1   TOTAL RUNOFF(CFS) =      29.63
  TC(MIN.) =    8.59

****************************************************************************
  FLOW PROCESS FROM NODE    103.00 TO NODE    104.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
================================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.22  DOWNSTREAM(FEET) =  1722.57
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.88
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      29.63
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    8.95
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    104.00 =    1113.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    104.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
================================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.107
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8773
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.48
  TOTAL AREA(ACRES) =       12.1   TOTAL RUNOFF(CFS) =      35.11
  TC(MIN.) =    8.95

****************************************************************************
  FLOW PROCESS FROM NODE    104.00 TO NODE    105.00 IS CODE =  31
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.57  DOWNSTREAM(FEET) =  1721.94
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  26.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.94
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.11
  PIPE TRAVEL TIME(MIN.) =   0.36    Tc(MIN.) =    9.31
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    105.00 =    1263.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    105.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.046
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8770
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.25
  TOTAL AREA(ACRES) =       13.7   TOTAL RUNOFF(CFS) =      39.36
  TC(MIN.) =    9.31

************************************************************************
  FLOW PROCESS FROM NODE    105.00 TO NODE    106.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.94  DOWNSTREAM(FEET) =  1721.22
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.68
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      39.36
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =    9.64
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    106.00 =    1413.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    106.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.994
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8767
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.00   SUBAREA RUNOFF(CFS) =    5.25
  TOTAL AREA(ACRES) =       15.7   TOTAL RUNOFF(CFS) =      44.61
  TC(MIN.) =    9.64

************************************************************************
  FLOW PROCESS FROM NODE    106.00 TO NODE    107.00 IS CODE =  31
------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.22  DOWNSTREAM(FEET) =  1720.51
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  27.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.78
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      44.61
  PIPE TRAVEL TIME(MIN.) =   0.32    Tc(MIN.) =    9.96
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    107.00 =    1563.00 FEET.

************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    107.00 IS CODE =  81
------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
========================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.946
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8764
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.01   SUBAREA RUNOFF(CFS) =    5.19
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      49.79
  TC(MIN.) =    9.96
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    107.00 TO NODE    108.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.51  DOWNSTREAM(FEET) =  1719.76
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  36.0 INCH PIPE IS  29.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.03
  ESTIMATED PIPE DIAMETER(INCH) =  36.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      49.79
  PIPE TRAVEL TIME(MIN.) =   0.31    Tc(MIN.) =   10.27
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    108.00 =    1713.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    108.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.901
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8761
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.59   SUBAREA RUNOFF(CFS) =    4.04
  TOTAL AREA(ACRES) =       19.3   TOTAL RUNOFF(CFS) =      53.84
  TC(MIN.) =   10.27

****************************************************************************
  FLOW PROCESS FROM NODE    108.00 TO NODE    109.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.76  DOWNSTREAM(FEET) =  1719.01
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.38
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      53.84
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.57
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    109.00 =    1863.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    109.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.860
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8759
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.02   SUBAREA RUNOFF(CFS) =    5.06
  TOTAL AREA(ACRES) =       21.3   TOTAL RUNOFF(CFS) =      58.89
  TC(MIN.) =   10.57

****************************************************************************
  FLOW PROCESS FROM NODE    109.00 TO NODE    110.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.01  DOWNSTREAM(FEET) =  1718.27
  FLOW LENGTH(FEET) =   150.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  30.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   8.41
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      58.89
  PIPE TRAVEL TIME(MIN.) =   0.30    Tc(MIN.) =   10.87
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    110.00 =    2013.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    110.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.820
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8756
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.41   SUBAREA RUNOFF(CFS) =   10.89
  TOTAL AREA(ACRES) =       25.7   TOTAL RUNOFF(CFS) =      69.78
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  TC(MIN.) =   10.87

****************************************************************************
  FLOW PROCESS FROM NODE    110.00 TO NODE    111.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1718.27  DOWNSTREAM(FEET) =  1712.62
  FLOW LENGTH(FEET) =   758.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  29.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      69.78
  PIPE TRAVEL TIME(MIN.) =   1.23    Tc(MIN.) =   12.09
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    111.00 =    2771.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    3.27   SUBAREA RUNOFF(CFS) =    7.65
  TOTAL AREA(ACRES) =       29.0   TOTAL RUNOFF(CFS) =      77.43
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    111.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.673
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8747
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.68   SUBAREA RUNOFF(CFS) =    1.59
  TOTAL AREA(ACRES) =       29.7   TOTAL RUNOFF(CFS) =      79.02
  TC(MIN.) =   12.09

****************************************************************************
  FLOW PROCESS FROM NODE    111.00 TO NODE    112.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.62  DOWNSTREAM(FEET) =  1708.53
  FLOW LENGTH(FEET) =   381.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  39.0 INCH PIPE IS  28.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  12.28
  ESTIMATED PIPE DIAMETER(INCH) =  39.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      79.02
  PIPE TRAVEL TIME(MIN.) =   0.52    Tc(MIN.) =   12.61
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    112.00 =    3152.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.87   SUBAREA RUNOFF(CFS) =    4.28
  TOTAL AREA(ACRES) =       31.6   TOTAL RUNOFF(CFS) =      83.30
  TC(MIN.) =   12.61

****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    112.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.618
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8743
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.20   SUBAREA RUNOFF(CFS) =    5.04
  TOTAL AREA(ACRES) =       33.8   TOTAL RUNOFF(CFS) =      88.34
  TC(MIN.) =   12.61
```

```
****************************************************************************
  FLOW PROCESS FROM NODE    112.00 TO NODE    113.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.53  DOWNSTREAM(FEET) =  1707.12
  FLOW LENGTH(FEET) =   285.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  36.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.27
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.34
  PIPE TRAVEL TIME(MIN.) =   0.51    Tc(MIN.) =   13.12
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    113.00 =    3437.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    113.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.566
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.24   SUBAREA RUNOFF(CFS) =    0.54
  TOTAL AREA(ACRES) =       34.0   TOTAL RUNOFF(CFS) =      88.87
  TC(MIN.) =   13.12

****************************************************************************
  FLOW PROCESS FROM NODE    113.00 TO NODE    114.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1707.12  DOWNSTREAM(FEET) =  1706.91
  FLOW LENGTH(FEET) =    41.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  45.0 INCH PIPE IS  35.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.43
  ESTIMATED PIPE DIAMETER(INCH) =  45.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      88.87
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.20
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    114.00 =    3478.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    114.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.559
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.22   SUBAREA RUNOFF(CFS) =    4.96
  TOTAL AREA(ACRES) =       36.2   TOTAL RUNOFF(CFS) =      93.84
  TC(MIN.) =   13.20

****************************************************************************
  FLOW PROCESS FROM NODE    114.00 TO NODE    115.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.91  DOWNSTREAM(FEET) =  1706.46
  FLOW LENGTH(FEET) =    90.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  34.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.62
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      93.84
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   13.35
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    115.00 =    3568.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    115.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.544
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8738
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.76
```

```
  TOTAL AREA(ACRES) =       37.9   TOTAL RUNOFF(CFS) =      97.60
  TC(MIN.) =   13.35

****************************************************************************
  FLOW PROCESS FROM NODE    115.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.46  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    30.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  48.0 INCH PIPE IS  35.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.94
  ESTIMATED PIPE DIAMETER(INCH) =  48.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      97.60
  PIPE TRAVEL TIME(MIN.) =   0.05    Tc(MIN.) =   13.40
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  10
----------------------------------------------------------------------------
  >>>>>MAIN-STREAM MEMORY COPIED ONTO MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    200.00 TO NODE    201.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   364.00
  UPSTREAM ELEVATION(FEET) =   1731.47
  DOWNSTREAM ELEVATION(FEET) =   1729.87
  ELEVATION DIFFERENCE(FEET) =      1.60
  TC = 0.303*[(  364.00**3)/(     1.60)]**.2 =    9.493
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.017
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8768
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.94
  TOTAL AREA(ACRES) =      1.11   TOTAL RUNOFF(CFS) =      2.94

****************************************************************************
  FLOW PROCESS FROM NODE    201.00 TO NODE    202.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1725.87  DOWNSTREAM(FEET) =  1724.98
  FLOW LENGTH(FEET) =   368.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  15.0 INCH PIPE IS  10.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   3.08
  ESTIMATED PIPE DIAMETER(INCH) =  15.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       2.94
  PIPE TRAVEL TIME(MIN.) =   1.99    Tc(MIN.) =   11.49
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    202.00 =     732.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    202.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.743
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8751
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.03   SUBAREA RUNOFF(CFS) =    2.47
  TOTAL AREA(ACRES) =        2.1   TOTAL RUNOFF(CFS) =       5.41
  TC(MIN.) =   11.49

****************************************************************************
  FLOW PROCESS FROM NODE    202.00 TO NODE    203.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1724.98  DOWNSTREAM(FEET) =  1723.86
  FLOW LENGTH(FEET) =   224.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  11.0 INCHES
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.79
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       5.41
  PIPE TRAVEL TIME(MIN.) =   0.78    Tc(MIN.) =   12.26
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    203.00 =     956.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    203.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.655
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.69   SUBAREA RUNOFF(CFS) =    1.60
  TOTAL AREA(ACRES) =        2.8   TOTAL RUNOFF(CFS) =       7.01
  TC(MIN.) =   12.26

****************************************************************************
  FLOW PROCESS FROM NODE    203.00 TO NODE    204.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.86  DOWNSTREAM(FEET) =  1723.67
  FLOW LENGTH(FEET) =    44.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  18.0 INCH PIPE IS  14.2 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   4.69
  ESTIMATED PIPE DIAMETER(INCH) =  18.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =       7.01
  PIPE TRAVEL TIME(MIN.) =   0.16    Tc(MIN.) =   12.42
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    204.00 =    1000.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    204.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.638
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8744
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    4.27   SUBAREA RUNOFF(CFS) =    9.85
  TOTAL AREA(ACRES) =        7.1   TOTAL RUNOFF(CFS) =      16.86
  TC(MIN.) =   12.42

****************************************************************************
  FLOW PROCESS FROM NODE    204.00 TO NODE    205.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1723.67  DOWNSTREAM(FEET) =  1722.94
  FLOW LENGTH(FEET) =   143.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  24.0 INCH PIPE IS  19.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.19
  ESTIMATED PIPE DIAMETER(INCH) =  24.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      16.86
  PIPE TRAVEL TIME(MIN.) =   0.38    Tc(MIN.) =   12.81
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    205.00 =    1143.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    205.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.598
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.86
  TOTAL AREA(ACRES) =        8.8   TOTAL RUNOFF(CFS) =      20.72
  TC(MIN.) =   12.81

****************************************************************************
  FLOW PROCESS FROM NODE    205.00 TO NODE    206.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.94  DOWNSTREAM(FEET) =  1722.75
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW LENGTH(FEET) =    40.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.43
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      20.72
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   12.91
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    206.00 =    1183.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    206.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.587
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8741
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.58
  TOTAL AREA(ACRES) =        9.5   TOTAL RUNOFF(CFS) =      22.30
  TC(MIN.) =   12.91

****************************************************************************
  FLOW PROCESS FROM NODE    206.00 TO NODE    207.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.75  DOWNSTREAM(FEET) =  1722.22
  FLOW LENGTH(FEET) =   106.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.3 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.63
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      22.30
  PIPE TRAVEL TIME(MIN.) =   0.27    Tc(MIN.) =   13.18
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    207.00 =    1289.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    207.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.561
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8739
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    3.00
  TOTAL AREA(ACRES) =       10.8   TOTAL RUNOFF(CFS) =      25.30
  TC(MIN.) =   13.18

****************************************************************************
  FLOW PROCESS FROM NODE    207.00 TO NODE    208.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1722.22  DOWNSTREAM(FEET) =  1721.63
  FLOW LENGTH(FEET) =   117.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.99
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      25.30
  PIPE TRAVEL TIME(MIN.) =   0.28    Tc(MIN.) =   13.46
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    208.00 =    1406.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    208.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.534
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8737
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.55
  TOTAL AREA(ACRES) =       11.5   TOTAL RUNOFF(CFS) =      26.85
  TC(MIN.) =   13.46

****************************************************************************
  FLOW PROCESS FROM NODE    208.00 TO NODE    209.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
==========================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.63  DOWNSTREAM(FEET) =  1721.50
  FLOW LENGTH(FEET) =    28.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  22.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   6.81
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      26.85
  PIPE TRAVEL TIME(MIN.) =   0.07    Tc(MIN.) =   13.52
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    209.00 =    1434.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    209.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.528
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8736
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.69   SUBAREA RUNOFF(CFS) =    3.73
  TOTAL AREA(ACRES) =       13.2   TOTAL RUNOFF(CFS) =      30.59
  TC(MIN.) =   13.52

****************************************************************************
  FLOW PROCESS FROM NODE    209.00 TO NODE    210.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1721.50  DOWNSTREAM(FEET) =  1720.78
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  33.0 INCH PIPE IS  21.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   7.32
  ESTIMATED PIPE DIAMETER(INCH) =  33.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      30.59
  PIPE TRAVEL TIME(MIN.) =   0.33    Tc(MIN.) =   13.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    210.00 =    1579.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    210.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.498
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.92
  TOTAL AREA(ACRES) =       14.6   TOTAL RUNOFF(CFS) =      33.51
  TC(MIN.) =   13.85

****************************************************************************
  FLOW PROCESS FROM NODE    210.00 TO NODE    211.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.78  DOWNSTREAM(FEET) =  1720.16
  FLOW LENGTH(FEET) =    51.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.30
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      33.51
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   13.94
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    211.00 =    1630.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    211.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.490
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8734
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.70   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       15.3   TOTAL RUNOFF(CFS) =      35.03
  TC(MIN.) =   13.94

****************************************************************************
  FLOW PROCESS FROM NODE    211.00 TO NODE    212.00 IS CODE =  31
----------------------------------------------------------------------------
```

```
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1720.16  DOWNSTREAM(FEET) =  1719.04
  FLOW LENGTH(FEET) =    94.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.23
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      35.03
  PIPE TRAVEL TIME(MIN.) =   0.15    Tc(MIN.) =   14.09
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    212.00 =    1724.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    212.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.477
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8732
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.68
  TOTAL AREA(ACRES) =       17.0   TOTAL RUNOFF(CFS) =      38.71
  TC(MIN.) =   14.09

****************************************************************************
  FLOW PROCESS FROM NODE    212.00 TO NODE    213.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1719.04  DOWNSTREAM(FEET) =  1717.49
  FLOW LENGTH(FEET) =   136.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.0 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.55
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      38.71
  PIPE TRAVEL TIME(MIN.) =   0.21    Tc(MIN.) =   14.30
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    213.00 =    1860.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    213.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.458
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.52
  TOTAL AREA(ACRES) =       17.7   TOTAL RUNOFF(CFS) =      40.23
  TC(MIN.) =   14.30

****************************************************************************
  FLOW PROCESS FROM NODE    213.00 TO NODE    214.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.49  DOWNSTREAM(FEET) =  1717.36
  FLOW LENGTH(FEET) =    15.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  24.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =   9.36
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      40.23
  PIPE TRAVEL TIME(MIN.) =   0.03    Tc(MIN.) =   14.33
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    214.00 =    1875.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    214.00 TO NODE    214.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.456
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8731
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.70   SUBAREA RUNOFF(CFS) =    3.64
  TOTAL AREA(ACRES) =       19.4   TOTAL RUNOFF(CFS) =      43.88
  TC(MIN.) =   14.33

****************************************************************************
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW PROCESS FROM NODE    214.00 TO NODE    215.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1717.36  DOWNSTREAM(FEET) =  1714.31
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  20.5 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.54
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      43.88
  PIPE TRAVEL TIME(MIN.) =   0.18    Tc(MIN.) =   14.51
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    215.00 =    2020.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    215.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.441
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8730
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.86
  TOTAL AREA(ACRES) =       20.7   TOTAL RUNOFF(CFS) =      46.73
  TC(MIN.) =   14.51

****************************************************************************
  FLOW PROCESS FROM NODE    215.00 TO NODE    216.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1714.31  DOWNSTREAM(FEET) =  1712.96
  FLOW LENGTH(FEET) =    64.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  27.0 INCH PIPE IS  21.7 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.62
  ESTIMATED PIPE DIAMETER(INCH) =  27.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      46.73
  PIPE TRAVEL TIME(MIN.) =   0.08    Tc(MIN.) =   14.59
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    216.00 =    2084.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    216.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.434
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.71   SUBAREA RUNOFF(CFS) =    1.51
  TOTAL AREA(ACRES) =       21.4   TOTAL RUNOFF(CFS) =      48.24
  TC(MIN.) =   14.59

****************************************************************************
  FLOW PROCESS FROM NODE    216.00 TO NODE    217.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1712.96  DOWNSTREAM(FEET) =  1711.30
  FLOW LENGTH(FEET) =    81.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  19.9 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  13.96
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      48.24
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.68
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    217.00 =    2165.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    217.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.426
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8729
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.68   SUBAREA RUNOFF(CFS) =    3.56
  TOTAL AREA(ACRES) =       23.1   TOTAL RUNOFF(CFS) =      51.80
  TC(MIN.) =   14.68
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
  FLOW PROCESS FROM NODE    217.00 TO NODE    218.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1711.30  DOWNSTREAM(FEET) =  1708.20
  FLOW LENGTH(FEET) =   145.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  20.6 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.39
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      51.80
  PIPE TRAVEL TIME(MIN.) =   0.17    Tc(MIN.) =   14.85
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    218.00 =    2310.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.78   SUBAREA RUNOFF(CFS) =    1.64
  TOTAL AREA(ACRES) =       23.9   TOTAL RUNOFF(CFS) =      53.44
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    218.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.412
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8727
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.34   SUBAREA RUNOFF(CFS) =    2.82
  TOTAL AREA(ACRES) =       25.2   TOTAL RUNOFF(CFS) =      56.26
  TC(MIN.) =   14.85

****************************************************************************
  FLOW PROCESS FROM NODE    218.00 TO NODE    219.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1708.20  DOWNSTREAM(FEET) =  1706.30
  FLOW LENGTH(FEET) =    87.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  30.0 INCH PIPE IS  21.8 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  14.71
  ESTIMATED PIPE DIAMETER(INCH) =  30.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =      56.26
  PIPE TRAVEL TIME(MIN.) =   0.10    Tc(MIN.) =   14.95
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  11
----------------------------------------------------------------------------
  >>>>>CONFLUENCE MEMORY BANK # 1 WITH THE MAIN-STREAM MEMORY<<<<<
============================================================================

  ** MAIN STREAM CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       56.26    14.95       2.404       25.23
  LONGEST FLOWPATH FROM NODE    200.00 TO NODE    219.00 =    2397.00 FEET.

  ** MEMORY BANK #  1 CONFLUENCE DATA **
  STREAM     RUNOFF      Tc      INTENSITY     AREA
  NUMBER      (CFS)    (MIN.)   (INCH/HOUR)   (ACRE)
      1       97.60    13.40       2.539       37.91
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    219.00 =    3598.00 FEET.

  ** PEAK FLOW RATE TABLE **
  STREAM    RUNOFF       Tc      INTENSITY
  NUMBER     (CFS)     (MIN.)   (INCH/HOUR)
      1     148.03      13.40        2.539
      2     148.66      14.95        2.404
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  COMPUTED CONFLUENCE ESTIMATES ARE AS FOLLOWS:
  PEAK FLOW RATE(CFS) =     148.66   Tc(MIN.) =   14.95
  TOTAL AREA(ACRES) =       63.1

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    219.00 IS CODE =  12
----------------------------------------------------------------------------
  >>>>>CLEAR MEMORY BANK # 1 <<<<<
============================================================================

****************************************************************************
  FLOW PROCESS FROM NODE    219.00 TO NODE    220.00 IS CODE =  31
----------------------------------------------------------------------------
  >>>>>COMPUTE PIPE-FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>USING COMPUTER-ESTIMATED PIPESIZE (NON-PRESSURE FLOW)<<<<<
============================================================================
  ELEVATION DATA: UPSTREAM(FEET) =  1706.30  DOWNSTREAM(FEET) =  1702.77
  FLOW LENGTH(FEET) =   706.00   MANNING'S N =  0.012
  DEPTH OF FLOW IN  57.0 INCH PIPE IS  41.4 INCHES
  PIPE-FLOW VELOCITY(FEET/SEC.) =  10.79
  ESTIMATED PIPE DIAMETER(INCH) =  57.00    NUMBER OF PIPES =   1
  PIPE-FLOW(CFS) =     148.66
  PIPE TRAVEL TIME(MIN.) =   1.09    Tc(MIN.) =   16.04
  LONGEST FLOWPATH FROM NODE    100.00 TO NODE    220.00 =    4304.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    220.00 TO NODE    220.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.321
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8720
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.96   SUBAREA RUNOFF(CFS) =    5.99
  TOTAL AREA(ACRES) =       66.1   TOTAL RUNOFF(CFS) =     154.66
  TC(MIN.) =   16.04
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =       66.1  TC(MIN.) =     16.04
  PEAK FLOW RATE(CFS)   =     154.66
  *** PEAK FLOW RATE TABLE ***
         Q(CFS)   Tc(MIN.)
  1      154.34      14.49
  2      154.66      16.04
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
**************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
       RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 500-502)                                         *
 **********************************************************************

  FILE NAME: W:\3828\500P.DAT
  TIME/DATE OF STUDY: 08:59 03/22/2021
--------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
--------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  ================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**************************************************************************
  FLOW PROCESS FROM NODE    500.00 TO NODE    501.00 IS CODE =  21
--------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==========================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   860.00
  UPSTREAM ELEVATION(FEET) =   1754.80
  DOWNSTREAM ELEVATION(FEET) =   1749.00
  ELEVATION DIFFERENCE(FEET) =      5.80
  TC = 0.303*[(  860.00**3)/(     5.80)]**.2 =   12.291
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.652
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8745
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.43
  TOTAL AREA(ACRES) =      1.05   TOTAL RUNOFF(CFS) =      2.43

**************************************************************************
  FLOW PROCESS FROM NODE    501.00 TO NODE    502.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

500P

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1748.80  DOWNSTREAM ELEVATION(FEET) = 1739.70
  STREET LENGTH(FEET) =   885.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 38.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.43
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.38
    HALFSTREET FLOOD WIDTH(FEET) =   10.89
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.49
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.94
  STREET FLOW TRAVEL TIME(MIN.) =   5.92   Tc(MIN.) =   18.21
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.179
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8708
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    1.99
  TOTAL AREA(ACRES) =        2.1        PEAK FLOW RATE(CFS) =       4.43

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.40   HALFSTREET FLOOD WIDTH(FEET) =  12.23
  FLOW VELOCITY(FEET/SEC.) =  2.63   DEPTH*VELOCITY(FT*FT/SEC.) =   1.06
  LONGEST FLOWPATH FROM NODE    500.00 TO NODE    502.00 =    1745.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.1  TC(MIN.) =     18.21
  PEAK FLOW RATE(CFS)   =       4.43
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
******************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 510-511)                                         *
 **********************************************************************

  FILE NAME: W:\3828\510P.DAT
  TIME/DATE OF STUDY: 09:09 03/22/2021
------------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
------------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

******************************************************************************
  FLOW PROCESS FROM NODE    510.00 TO NODE    511.00 IS CODE =  21
------------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
==============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   395.00
  UPSTREAM ELEVATION(FEET) =   1740.00
  DOWNSTREAM ELEVATION(FEET) =   1736.25
  ELEVATION DIFFERENCE(FEET) =      3.75
  TC = 0.303*[(  395.00**3)/(     3.75)]**.2 =    8.409
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  3.206
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8778
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.81
  TOTAL AREA(ACRES) =      1.00   TOTAL RUNOFF(CFS) =      2.81
==============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        1.0  TC(MIN.) =      8.41
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

510P

PEAK FLOW RATE(CFS) = 2.81

==========

==========

END OF RATIONAL METHOD ANALYSIS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
****************************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                         Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB 3828                                                        *
* 100-YEAR STORM EVENT                                                *
* STREET FLOW (NODES 520-522)                                         *
 ************************************************************************

  FILE NAME: W:\3828\520P.DAT
  TIME/DATE OF STUDY: 09:29 03/22/2021
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

****************************************************************************
  FLOW PROCESS FROM NODE    520.00 TO NODE    521.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS COMMERCIAL
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   755.00
  UPSTREAM ELEVATION(FEET) =   1737.10
  DOWNSTREAM ELEVATION(FEET) =   1724.20
  ELEVATION DIFFERENCE(FEET) =     12.90
  TC = 0.303*[(  755.00**3)/(    12.90)]**.2 =    9.688
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.987
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8766
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      2.49
  TOTAL AREA(ACRES) =      0.95   TOTAL RUNOFF(CFS) =      2.49

****************************************************************************
  FLOW PROCESS FROM NODE    521.00 TO NODE    522.00 IS CODE =  61
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

520P

```
--------------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
================================================================================
  UPSTREAM ELEVATION(FEET) = 1724.20  DOWNSTREAM ELEVATION(FEET) = 1696.30
  STREET LENGTH(FEET) =   755.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 43.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  15.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.69
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.33
    HALFSTREET FLOOD WIDTH(FEET) =    8.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    4.14
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.35
  STREET FLOW TRAVEL TIME(MIN.) =   3.04   Tc(MIN.) =   12.72
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.606
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8742
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    1.05      SUBAREA RUNOFF(CFS) =    2.39
  TOTAL AREA(ACRES) =        2.0        PEAK FLOW RATE(CFS) =       4.88

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.35   HALFSTREET FLOOD WIDTH(FEET) =   9.57
  FLOW VELOCITY(FEET/SEC.) =  4.42   DEPTH*VELOCITY(FT*FT/SEC.) =   1.54
  LONGEST FLOWPATH FROM NODE    520.00 TO NODE    522.00 =    1510.00 FEET.
================================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        2.0  TC(MIN.) =     12.72
  PEAK FLOW RATE(CFS)   =       4.88
================================================================================
================================================================================
  END OF RATIONAL METHOD ANALYSIS
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
______________________________________________________________________
**********************************************************************
           RATIONAL METHOD HYDROLOGY COMPUTER PROGRAM BASED ON
        RIVERSIDE COUNTY FLOOD CONTROL & WATER CONSERVATION DISTRICT
                    (RCFC&WCD)  1978 HYDROLOGY MANUAL
         (c) Copyright 1982-2016 Advanced Engineering Software (aes)
                    (Rational Tabling Version 23.0)
                Release Date: 07/01/2016  License ID 1435

                          Analysis prepared by:

                       THIENES ENGINEERING, INC.
                          14349 FIRESTONE BLVD
                          LA MIRIADA, CA 90638
                              714-521-4811

 ************************ DESCRIPTION OF STUDY ************************
* TEI JOB NUMBER 3828                                                 *
* PROPOSED CONDITIONS                                                 *
* 100-YEAR STORM EVENT                                                *
 **********************************************************************

  FILE NAME: W:\3828\P600.DAT
  TIME/DATE OF STUDY: 12:18 04/05/2022
----------------------------------------------------------------------------
  USER SPECIFIED HYDROLOGY AND HYDRAULIC MODEL INFORMATION:
----------------------------------------------------------------------------
  USER SPECIFIED STORM EVENT(YEAR) =  100.00
  SPECIFIED MINIMUM PIPE SIZE(INCH) =  12.00
  SPECIFIED PERCENT OF GRADIENTS(DECIMAL) TO USE FOR FRICTION SLOPE = 0.95
  10-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.010
  10-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  0.820
  100-YEAR STORM 10-MINUTE INTENSITY(INCH/HOUR) =  2.940
  100-YEAR STORM 60-MINUTE INTENSITY(INCH/HOUR) =  1.200
  SLOPE OF 10-YEAR INTENSITY-DURATION CURVE =  0.5003939
  SLOPE OF 100-YEAR INTENSITY-DURATION CURVE =  0.5001161
  COMPUTED RAINFALL INTENSITY DATA:
  STORM EVENT =  100.00   1-HOUR INTENSITY(INCH/HOUR) =   1.200
  SLOPE OF INTENSITY DURATION CURVE = 0.5001
  RCFC&WCD HYDROLOGY MANUAL "C"-VALUES USED FOR RATIONAL METHOD
  NOTE: CONSIDER ALL CONFLUENCE STREAM COMBINATIONS
        FOR ALL DOWNSTREAM ANALYSES
  *USER-DEFINED STREET-SECTIONS FOR COUPLED PIPEFLOW AND STREETFLOW MODEL*
     HALF-  CROWN TO   STREET-CROSSFALL:   CURB  GUTTER-GEOMETRIES:  MANNING
     WIDTH  CROSSFALL  IN-  / OUT-/PARK-  HEIGHT  WIDTH  LIP   HIKE  FACTOR
NO.   (FT)     (FT)    SIDE / SIDE/ WAY    (FT)    (FT)  (FT)  (FT)    (n)
===  =====  =========  =================  ======  ===== ====== ===== =======
  1   30.0     20.0    0.018/0.018/0.020   0.67    2.00 0.0313 0.167 0.0150

  GLOBAL STREET FLOW-DEPTH CONSTRAINTS:
    1. Relative Flow-Depth =  0.00 FEET
       as (Maximum Allowable Street Flow Depth) - (Top-of-Curb)
    2. (Depth)*(Velocity) Constraint =  6.0 (FT*FT/S)
  *SIZE PIPE WITH A FLOW CAPACITY GREATER THAN
   OR EQUAL TO THE UPSTREAM TRIBUTARY PIPE.*

**********************************************************************
  FLOW PROCESS FROM NODE    600.00 TO NODE    601.00 IS CODE =  21
----------------------------------------------------------------------------
  >>>>>RATIONAL METHOD INITIAL SUBAREA ANALYSIS<<<<<
============================================================================
         ASSUMED INITIAL SUBAREA UNIFORM
         DEVELOPMENT IS: UNDEVELOPED WITH GOOD COVER
  TC = K*[(LENGTH**3)/(ELEVATION CHANGE)]**.2
  INITIAL SUBAREA FLOW-LENGTH(FEET) =   150.00
  UPSTREAM ELEVATION(FEET) =   1728.00
  DOWNSTREAM ELEVATION(FEET) =   1723.00
  ELEVATION DIFFERENCE(FEET) =      5.00
  TC = 0.937*[(  150.00**3)/(     5.00)]**.2 =   13.734
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  2.509
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .6349
  SOIL CLASSIFICATION IS "B"
  SUBAREA RUNOFF(CFS) =      1.27
  TOTAL AREA(ACRES) =      0.80   TOTAL RUNOFF(CFS) =      1.27

**********************************************************************
  FLOW PROCESS FROM NODE    601.00 TO NODE    602.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1723.00  DOWNSTREAM ELEVATION(FEET) = 1718.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       1.92
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.35
    HALFSTREET FLOOD WIDTH(FEET) =    9.46
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    1.77
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.62
  STREET FLOW TRAVEL TIME(MIN.) =   7.89   Tc(MIN.) =   21.63
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8691
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.30
  TOTAL AREA(ACRES) =        1.5        PEAK FLOW RATE(CFS) =       2.58

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.38   HALFSTREET FLOOD WIDTH(FEET) =  10.87
  FLOW VELOCITY(FEET/SEC.) =  1.88   DEPTH*VELOCITY(FT*FT/SEC.) =   0.71
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    602.00 =     990.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    602.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.999
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5905
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.40   SUBAREA RUNOFF(CFS) =    0.47
  TOTAL AREA(ACRES) =        1.9   TOTAL RUNOFF(CFS) =       3.05
  TC(MIN.) =   21.63

****************************************************************************
  FLOW PROCESS FROM NODE    602.00 TO NODE    603.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1718.00  DOWNSTREAM ELEVATION(FEET) = 1712.50
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       3.62
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.41
    HALFSTREET FLOOD WIDTH(FEET) =   12.35
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.11
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    0.85
  STREET FLOW TRAVEL TIME(MIN.) =   6.64   Tc(MIN.) =   28.26
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.749
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8663
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.75      SUBAREA RUNOFF(CFS) =    1.14
  TOTAL AREA(ACRES) =        2.7        PEAK FLOW RATE(CFS) =       4.19

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.42   HALFSTREET FLOOD WIDTH(FEET) =  13.13
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
  FLOW VELOCITY(FEET/SEC.) =  2.19   DEPTH*VELOCITY(FT*FT/SEC.) =   0.92
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    603.00 =    1830.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    603.00 TO NODE    604.00 IS CODE =  61
----------------------------------------------------------------------------
  >>>>>COMPUTE STREET FLOW TRAVEL TIME THRU SUBAREA<<<<<
  >>>>>(STANDARD CURB SECTION USED)<<<<<
============================================================================
  UPSTREAM ELEVATION(FEET) = 1712.50  DOWNSTREAM ELEVATION(FEET) = 1706.00
  STREET LENGTH(FEET) =   840.00   CURB HEIGHT(INCHES) =  8.0
  STREET HALFWIDTH(FEET) = 32.00

  DISTANCE FROM CROWN TO CROSSFALL GRADEBREAK(FEET) =  20.00
  INSIDE STREET CROSSFALL(DECIMAL) =  0.020
  OUTSIDE STREET CROSSFALL(DECIMAL)  =  0.020

  SPECIFIED NUMBER OF HALFSTREETS CARRYING RUNOFF =  1
  STREET PARKWAY CROSSFALL(DECIMAL)  =  0.020
  Manning's FRICTION FACTOR for Streetflow Section(curb-to-curb) =   0.0149
  Manning's FRICTION FACTOR for Back-of-Walk Flow Section =   0.0200

    **TRAVEL TIME COMPUTED USING ESTIMATED FLOW(CFS) =       4.74
    STREETFLOW MODEL RESULTS USING ESTIMATED FLOW:
    STREET FLOW DEPTH(FEET) =  0.43
    HALFSTREET FLOOD WIDTH(FEET) =   13.37
    AVERAGE FLOW VELOCITY(FEET/SEC.) =    2.40
    PRODUCT OF DEPTH&VELOCITY(FT*FT/SEC.) =    1.02
  STREET FLOW TRAVEL TIME(MIN.) =   5.84   Tc(MIN.) =   34.11
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  COMMERCIAL DEVELOPMENT RUNOFF COEFFICIENT = .8643
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    0.80      SUBAREA RUNOFF(CFS) =    1.10
  TOTAL AREA(ACRES) =        3.5        PEAK FLOW RATE(CFS) =       5.29

  END OF SUBAREA STREET FLOW HYDRAULICS:
  DEPTH(FEET) = 0.44   HALFSTREET FLOOD WIDTH(FEET) =  13.99
  FLOW VELOCITY(FEET/SEC.) =  2.46   DEPTH*VELOCITY(FT*FT/SEC.) =   1.08
  LONGEST FLOWPATH FROM NODE    600.00 TO NODE    604.00 =    2670.00 FEET.

****************************************************************************
  FLOW PROCESS FROM NODE    604.00 TO NODE    604.00 IS CODE =  81
----------------------------------------------------------------------------
  >>>>>ADDITION OF SUBAREA TO MAINLINE PEAK FLOW<<<<<
============================================================================
   100 YEAR RAINFALL INTENSITY(INCH/HOUR) =  1.592
  UNDEVELOPED WATERSHED RUNOFF COEFFICIENT = .5428
  SOIL CLASSIFICATION IS "B"
  SUBAREA AREA(ACRES) =    2.15   SUBAREA RUNOFF(CFS) =    1.86
  TOTAL AREA(ACRES) =        5.6   TOTAL RUNOFF(CFS) =       7.14
  TC(MIN.) =   34.11
============================================================================
  END OF STUDY SUMMARY:
  TOTAL AREA(ACRES)     =        5.6  TC(MIN.) =     34.11
  PEAK FLOW RATE(CFS)   =       7.14
============================================================================
============================================================================
  END OF RATIONAL METHOD ANALYSIS
```

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX C

DETENTION CALCULATIONS

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

HYDROGRAPH RESULTS

Return Event (year)	Storm Duration (hour)	Existing Total Flow (cfs)	Existing Total Volume (ac-ft)	Proposed Total Flow (cfs)	Proposed Total Volume (ac-ft)	Peak Flow Difference (cfs)	Volume Difference (ac-ft)
100	1	131.5	5.89	177.0	6.38	45.5	0.49
100	3	88.3	7.96	103.5	9.62	15.2	1.66
100	6	77.8	9.16	89.8	12.81	12.0	3.65
100	24	31.9	12.27	37.9	22.68	6.0	10.41
10	1	73.5	2.78	113.0	4.06	39.5	1.28
10	3	45.5	2.67	65.2	6.24	19.7	3.57
10	6	40.1	2.93	57.8	8.59	17.7	5.66
10	24	8.8	2.25	23.8	14.50	15.0	12.25
5	1	47.0	1.38	93.3	3.38	46.3	2.00
5	3	23.8	1.20	54.5	5.27	30.7	4.07
5	6	19.9	1.31	49.5	7.38	29.6	6.07
5	24	2.2	1.34	19.7	12.05	17.5	10.71
2	1	29.8	0.87	69.2	2.53	39.4	1.66
2	3	12.1	0.67	41.6	4.02	29.5	3.35
2	6	10.1	0.80	38.8	5.79	28.7	4.99
2	24	1.6	0.98	14.4	8.81	12.8	7.83

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

DETENTION BASIN STAGED STORAGE

Elevation	Depth (feet)	Area (sq. ft.)	Volume (c.f.)	Σ Volume (c.f.)	Σ Volume (ac-ft)
1706.80	0.00	124,765			
			25,132	25,132	0.58
1707.00	0.20	126,554			
			25,490	50,622	1.16
1707.20	0.40	128,350			
			25,850	76,472	1.76
1707.40	0.60	130,150			
			26,211	102,683	2.36
1707.60	0.80	131,960			
			26,573	129,256	2.97
1707.80	1.00	133,770			
			26,936	156,192	3.59
1708.00	1.20	135,590			
			27,301	183,493	4.21
1708.20	1.40	137,420			
			27,667	211,160	4.85
1708.40	1.60	139,250			
			28,034	239,194	5.49
1708.60	1.80	141,090			
			28,403	267,597	6.14
1708.80	2.00	142,935			
			28,773	296,369	6.80
1709.00	2.20	144,790			
			29,143	325,512	7.47
1709.20	2.40	146,640			
			29,514	355,026	8.15
1709.40	2.60	148,500			
			29,888	384,914	8.84
1709.60	2.80	150,375			
			30,263	415,176	9.53
1709.80	3.00	152,250			
			30,638	445,814	10.23
1710.00	3.20	154,130			
			31,015	476,829	10.95
1710.20	3.40	156,020			
			31,393	508,222	11.67
1710.40	3.60	157,910			
			31,772	539,994	12.40
1710.60	3.80	159,810			
			32,152	572,147	13.13
1710.80	4.00	161,714			
			32,534	604,681	13.88
1711.00	4.20	163,625			
			32,917	637,597	14.64
1711.20	4.40	165,540			
			33,300	670,897	15.40
1711.40	4.60	167,460			
			33,686	704,583	16.18
1711.60	4.80	169,400			

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

EXISTING CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX212.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.488)	0.227	0.025
2	0.17	4.30	0.258	(0.488)	0.232	0.026
3	0.25	5.00	0.300	(0.488)	0.270	0.030
4	0.33	5.00	0.300	(0.488)	0.270	0.030
5	0.42	5.80	0.348	(0.488)	0.313	0.035
6	0.50	6.50	0.390	(0.488)	0.351	0.039
7	0.58	7.40	0.444	(0.488)	0.399	0.044
8	0.67	8.60	0.516	(0.488)	0.464	0.052
9	0.75	12.30	0.738	0.488	(0.664)	0.249
10	0.83	29.10	1.745	0.488	(1.570)	1.257
11	0.92	6.80	0.408	(0.488)	0.367	0.041
12	1.00	5.00	0.300	(0.488)	0.270	0.030
	(Loss Rate Not Used)					
Sum =	100.0				Sum =	1.9

Flood volume = Effective rainfall 0.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.9(Ac.Ft)
Total soil loss = 0.34(In)
Total soil loss = 1.929(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 37696.1 Cubic Feet
Total soil loss = 84016.4 Cubic Feet

Peak flow rate of this hydrograph = 29.826(CFS)

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX212

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 7.5 15.0 22.5 30.0
0+ 5	0.0008	0.11	Q
0+10	0.0049	0.59	Q
0+15	0.0125	1.11	VQ
0+20	0.0222	1.41	|Q
0+25	0.0334	1.63	|VQ
0+30	0.0462	1.85	| Q
0+35	0.0608	2.13	| Q
0+40	0.0776	2.44	| Q
0+45	0.1028	3.65	| Q
0+50	0.1864	12.14	| V Q
0+55	0.3918	29.83	| V Q|
1+ 0	0.5836	27.85	| V Q |
1+ 5	0.6750	13.27	| Q |V |
1+10	0.7276	7.63	| Q | V |
1+15	0.7630	5.15	| Q | V |
1+20	0.7884	3.68	| Q | V |
1+25	0.8073	2.74	| Q | V |
1+30	0.8214	2.04	| Q | V |
1+35	0.8331	1.71	| Q | V |
1+40	0.8422	1.32	|Q | V |
1+45	0.8493	1.03	|Q | V|
1+50	0.8547	0.79	|Q | V|
1+55	0.8588	0.60	Q | V|
2+ 0	0.8626	0.54	Q | V|
2+ 5	0.8652	0.38	Q | V|
2+10	0.8653	0.02	Q | V|
2+15	0.8654	0.01	Q | V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX232.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.488)	0.112	0.012
2	0.17	1.30	0.125	(0.488)	0.112	0.012
3	0.25	1.10	0.106	(0.488)	0.095	0.011
4	0.33	1.50	0.144	(0.488)	0.130	0.014
5	0.42	1.50	0.144	(0.488)	0.130	0.014
6	0.50	1.80	0.173	(0.488)	0.155	0.017
7	0.58	1.50	0.144	(0.488)	0.130	0.014
8	0.67	1.80	0.173	(0.488)	0.155	0.017
9	0.75	1.80	0.173	(0.488)	0.155	0.017
10	0.83	1.50	0.144	(0.488)	0.130	0.014
11	0.92	1.60	0.154	(0.488)	0.138	0.015
12	1.00	1.80	0.173	(0.488)	0.155	0.017
13	1.08	2.20	0.211	(0.488)	0.190	0.021
14	1.17	2.20	0.211	(0.488)	0.190	0.021
15	1.25	2.20	0.211	(0.488)	0.190	0.021
16	1.33	2.00	0.192	(0.488)	0.173	0.019
17	1.42	2.60	0.250	(0.488)	0.225	0.025
18	1.50	2.70	0.259	(0.488)	0.233	0.026
19	1.58	2.40	0.230	(0.488)	0.207	0.023
20	1.67	2.70	0.259	(0.488)	0.233	0.026
21	1.75	3.30	0.317	(0.488)	0.285	0.032
22	1.83	3.10	0.298	(0.488)	0.268	0.030
23	1.92	2.90	0.278	(0.488)	0.250	0.028
24	2.00	3.00	0.288	(0.488)	0.259	0.029
25	2.08	3.10	0.298	(0.488)	0.268	0.030
26	2.17	4.20	0.403	(0.488)	0.363	0.040
27	2.25	5.00	0.480	(0.488)	0.432	0.048
28	2.33	3.50	0.336	(0.488)	0.302	0.034
29	2.42	6.80	0.653	0.488	(0.587)	0.164
30	2.50	7.30	0.701	0.488	(0.631)	0.212
31	2.58	8.20	0.787	0.488	(0.708)	0.299
32	2.67	5.90	0.566	0.488	(0.510)	0.078
33	2.75	2.00	0.192	(0.488)	0.173	0.019
34	2.83	1.80	0.173	(0.488)	0.155	0.017
35	2.92	1.80	0.173	(0.488)	0.155	0.017
36	3.00	0.60	0.058	(0.488)	0.052	0.006
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	1.4

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 0.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.7(Ac.Ft)
Total soil loss = 0.68(In)
Total soil loss = 3.800(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 29270.2 Cubic Feet
Total soil loss = 165531.0 Cubic Feet

Peak flow rate of this hydrograph = 12.057(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 5.0 10.0 15.0 20.0
0+ 5	0.0004	0.06	Q
0+10	0.0024	0.29	Q
0+15	0.0060	0.52	VQ
0+20	0.0102	0.61	VQ
0+25	0.0150	0.70	VQ
0+30	0.0206	0.81	|Q
0+35	0.0268	0.90	|Q
0+40	0.0333	0.95	|Q
0+45	0.0402	0.99	|QV
0+50	0.0474	1.04	| Q
0+55	0.0545	1.03	| QV
1+ 0	0.0615	1.02	| QV
1+ 5	0.0689	1.08	| Q V
1+10	0.0772	1.20	| Q V
1+15	0.0861	1.30	| Q V
1+20	0.0953	1.33	| Q V
1+25	0.1046	1.34	| Q V
1+30	0.1145	1.44	| Q V
1+35	0.1252	1.55	| Q V
1+40	0.1360	1.58	| Q V
1+45	0.1473	1.63	| Q V
1+50	0.1596	1.79	| Q V
1+55	0.1726	1.88	| Q V
2+ 0	0.1855	1.88	| Q |V
2+ 5	0.1985	1.89	| Q |V
2+10	0.2121	1.97	| Q | V
2+15	0.2275	2.24	| Q | V
2+20	0.2450	2.54	| Q | V
2+25	0.2663	3.09	| Q | V
2+30	0.3051	5.63	| |Q V |
2+35	0.3699	9.40	| | Q | V |
2+40	0.4529	12.06	| | | Q V |
2+45	0.5235	10.24	| | Q |V
2+50	0.5660	6.18	| Q | V
2+55	0.5937	4.02	| Q | V
3+ 0	0.6147	3.05	| Q | V
3+ 5	0.6304	2.27	| Q | V
3+10	0.6414	1.60	| Q | V
3+15	0.6493	1.15	| Q | V
3+20	0.6554	0.89	|Q | V|
3+25	0.6601	0.69	|Q | V|
3+30	0.6637	0.52	|Q | V|
3+35	0.6665	0.40	Q | V|
3+40	0.6687	0.32	Q | V|
3+45	0.6704	0.23	Q | V|
3+50	0.6713	0.14	Q | V|
3+55	0.6717	0.05	Q | V|
4+ 0	0.6718	0.02	Q | V|
4+ 5	0.6719	0.01	Q | V|
4+10	0.6719	0.01	Q | V|
4+15	0.6720	0.00	Q | V|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX262.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX262

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.488)	0.062	0.007
2	0.17	0.60	0.083	(0.488)	0.075	0.008
3	0.25	0.60	0.083	(0.488)	0.075	0.008
4	0.33	0.60	0.083	(0.488)	0.075	0.008
5	0.42	0.60	0.083	(0.488)	0.075	0.008
6	0.50	0.70	0.097	(0.488)	0.087	0.010
7	0.58	0.70	0.097	(0.488)	0.087	0.010
8	0.67	0.70	0.097	(0.488)	0.087	0.010
9	0.75	0.70	0.097	(0.488)	0.087	0.010
10	0.83	0.70	0.097	(0.488)	0.087	0.010
11	0.92	0.70	0.097	(0.488)	0.087	0.010
12	1.00	0.80	0.110	(0.488)	0.099	0.011
13	1.08	0.80	0.110	(0.488)	0.099	0.011
14	1.17	0.80	0.110	(0.488)	0.099	0.011
15	1.25	0.80	0.110	(0.488)	0.099	0.011
16	1.33	0.80	0.110	(0.488)	0.099	0.011
17	1.42	0.80	0.110	(0.488)	0.099	0.011
18	1.50	0.80	0.110	(0.488)	0.099	0.011
19	1.58	0.80	0.110	(0.488)	0.099	0.011
20	1.67	0.80	0.110	(0.488)	0.099	0.011
21	1.75	0.80	0.110	(0.488)	0.099	0.011
22	1.83	0.80	0.110	(0.488)	0.099	0.011
23	1.92	0.80	0.110	(0.488)	0.099	0.011
24	2.00	0.90	0.124	(0.488)	0.112	0.012
25	2.08	0.80	0.110	(0.488)	0.099	0.011
26	2.17	0.90	0.124	(0.488)	0.112	0.012
27	2.25	0.90	0.124	(0.488)	0.112	0.012
28	2.33	0.90	0.124	(0.488)	0.112	0.012
29	2.42	0.90	0.124	(0.488)	0.112	0.012
30	2.50	0.90	0.124	(0.488)	0.112	0.012
31	2.58	0.90	0.124	(0.488)	0.112	0.012
32	2.67	0.90	0.124	(0.488)	0.112	0.012
33	2.75	1.00	0.138	(0.488)	0.124	0.014
34	2.83	1.00	0.138	(0.488)	0.124	0.014
35	2.92	1.00	0.138	(0.488)	0.124	0.014
36	3.00	1.00	0.138	(0.488)	0.124	0.014
37	3.08	1.00	0.138	(0.488)	0.124	0.014
38	3.17	1.10	0.152	(0.488)	0.137	0.015

39	3.25	1.10	0.152	(0.488)	0.137	0.015	
40	3.33	1.10	0.152	(0.488)	0.137	0.015	
41	3.42	1.20	0.166	(0.488)	0.149	0.017	
42	3.50	1.30	0.179	(0.488)	0.161	0.018	
43	3.58	1.40	0.193	(0.488)	0.174	0.019	
44	3.67	1.40	0.193	(0.488)	0.174	0.019	
45	3.75	1.50	0.207	(0.488)	0.186	0.021	
46	3.83	1.50	0.207	(0.488)	0.186	0.021	
47	3.92	1.60	0.221	(0.488)	0.199	0.022	
48	4.00	1.60	0.221	(0.488)	0.199	0.022	
49	4.08	1.70	0.235	(0.488)	0.211	0.023	
50	4.17	1.80	0.248	(0.488)	0.224	0.025	
51	4.25	1.90	0.262	(0.488)	0.236	0.026	
52	4.33	2.00	0.276	(0.488)	0.248	0.028	
53	4.42	2.10	0.290	(0.488)	0.261	0.029	
54	4.50	2.10	0.290	(0.488)	0.261	0.029	
55	4.58	2.20	0.304	(0.488)	0.273	0.030	
56	4.67	2.30	0.317	(0.488)	0.286	0.032	
57	4.75	2.40	0.331	(0.488)	0.298	0.033	
58	4.83	2.40	0.331	(0.488)	0.298	0.033	
59	4.92	2.50	0.345	(0.488)	0.310	0.034	
60	5.00	2.60	0.359	(0.488)	0.323	0.036	
61	5.08	3.10	0.428	(0.488)	0.385	0.043	
62	5.17	3.60	0.497	(0.488)	0.447	0.050	
63	5.25	3.90	0.538	(0.488)	0.484	0.054	
64	5.33	4.20	0.579	0.488	(0.522)	0.091	
65	5.42	4.70	0.648	0.488	(0.584)	0.160	
66	5.50	5.60	0.773	0.488	(0.695)	0.284	
67	5.58	1.90	0.262	(0.488)	0.236	0.026	
68	5.67	0.90	0.124	(0.488)	0.112	0.012	
69	5.75	0.60	0.083	(0.488)	0.075	0.008	
70	5.83	0.50	0.069	(0.488)	0.062	0.007	
71	5.92	0.30	0.041	(0.488)	0.037	0.004	
72	6.00	0.20	0.028	(0.488)	0.025	0.003	

(Loss Rate Not Used)

Sum = 100.0 Sum = 1.7

Flood volume = Effective rainfall 0.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 0.8(Ac.Ft)
Total soil loss = 1.01(In)
Total soil loss = 5.630(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 34812.4 Cubic Feet
Total soil loss = 245231.9 Cubic Feet

Peak flow rate of this hydrograph = 10.077(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.03	Q				
0+10	0.0014	0.17	Q				
0+15	0.0036	0.33	Q				
0+20	0.0065	0.41	Q				
0+25	0.0096	0.45	Q				
0+30	0.0129	0.49	Q				
0+35	0.0166	0.53	VQ				
0+40	0.0205	0.57	|Q				
0+45	0.0246	0.60	|Q				
0+50	0.0289	0.61	|Q				
0+55	0.0331	0.62	|Q				
1+ 0	0.0375	0.64	|Q				
1+ 5	0.0421	0.67	|QV				
1+10	0.0470	0.70	|QV				
1+15	0.0519	0.72	|QV				
1+20	0.0569	0.73	|QV				
1+25	0.0620	0.73	|Q V				
1+30	0.0670	0.74	|Q V				
1+35	0.0721	0.74	|Q V				
1+40	0.0772	0.74	|Q V				
1+45	0.0823	0.74	|Q V				
1+50	0.0874	0.74	|Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX262

1+55	0.0926	0.74	Q V
2+ 0	0.0978	0.75	Q V
2+ 5	0.1031	0.77	Q V
2+10	0.1084	0.78	Q V
2+15	0.1139	0.79	Q V
2+20	0.1195	0.81	Q V
2+25	0.1251	0.82	Q V
2+30	0.1308	0.83	Q V
2+35	0.1365	0.83	Q V
2+40	0.1423	0.83	Q V
2+45	0.1481	0.84	Q V
2+50	0.1540	0.87	Q V
2+55	0.1602	0.90	Q V
3+ 0	0.1665	0.91	Q V
3+ 5	0.1728	0.92	Q V
3+10	0.1791	0.93	Q V
3+15	0.1857	0.96	Q V
3+20	0.1925	0.98	Q V
3+25	0.1994	1.00	Q V
3+30	0.2066	1.04	Q V
3+35	0.2143	1.11	Q V
3+40	0.2224	1.18	Q V
3+45	0.2308	1.23	Q V
3+50	0.2397	1.28	Q V
3+55	0.2488	1.33	Q V
4+ 0	0.2583	1.38	Q V
4+ 5	0.2681	1.42	Q V
4+10	0.2783	1.48	Q V
4+15	0.2890	1.55	Q V
4+20	0.3002	1.63	Q V
4+25	0.3120	1.72	Q V
4+30	0.3244	1.80	Q V
4+35	0.3372	1.86	Q V
4+40	0.3505	1.92	Q V
4+45	0.3642	2.00	Q V
4+50	0.3786	2.08	Q V
4+55	0.3933	2.14	Q V
5+ 0	0.4085	2.20	Q V
5+ 5	0.4244	2.31	Q V
5+10	0.4418	2.52	Q V
5+15	0.4613	2.83	Q V
5+20	0.4839	3.29	Q V
5+25	0.5148	4.48	Q V
5+30	0.5641	7.16	Q V
5+35	0.6335	10.08	Q V
5+40	0.6906	8.29	Q V
5+45	0.7216	4.51	Q V
5+50	0.7416	2.91	Q V
5+55	0.7564	2.14	Q V
6+ 0	0.7675	1.62	Q V
6+ 5	0.7759	1.22	Q V
6+10	0.7821	0.90	Q V
6+15	0.7868	0.69	Q V
6+20	0.7904	0.52	Q V
6+25	0.7932	0.40	Q V
6+30	0.7953	0.30	Q V
6+35	0.7968	0.23	Q V
6+40	0.7981	0.18	Q V
6+45	0.7988	0.11	Q V
6+50	0.7990	0.02	Q V
6+55	0.7991	0.01	Q V
7+ 0	0.7991	0.01	Q V
7+ 5	0.7992	0.00	Q V
7+10	0.7992	0.00	Q V
7+15	0.7992	0.00	Q V

3828EX224

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX2242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.866)	0.013	0.001
2	0.17	0.07	0.014	(0.862)	0.013	0.001
3	0.25	0.07	0.014	(0.859)	0.013	0.001
4	0.33	0.10	0.021	(0.856)	0.019	0.002
5	0.42	0.10	0.021	(0.852)	0.019	0.002
6	0.50	0.10	0.021	(0.849)	0.019	0.002
7	0.58	0.10	0.021	(0.846)	0.019	0.002
8	0.67	0.10	0.021	(0.842)	0.019	0.002
9	0.75	0.10	0.021	(0.839)	0.019	0.002
10	0.83	0.13	0.028	(0.836)	0.025	0.003
11	0.92	0.13	0.028	(0.833)	0.025	0.003
12	1.00	0.13	0.028	(0.829)	0.025	0.003
13	1.08	0.10	0.021	(0.826)	0.019	0.002
14	1.17	0.10	0.021	(0.823)	0.019	0.002
15	1.25	0.10	0.021	(0.819)	0.019	0.002
16	1.33	0.10	0.021	(0.816)	0.019	0.002
17	1.42	0.10	0.021	(0.813)	0.019	0.002
18	1.50	0.10	0.021	(0.810)	0.019	0.002
19	1.58	0.10	0.021	(0.806)	0.019	0.002
20	1.67	0.10	0.021	(0.803)	0.019	0.002
21	1.75	0.10	0.021	(0.800)	0.019	0.002
22	1.83	0.13	0.028	(0.797)	0.025	0.003
23	1.92	0.13	0.028	(0.794)	0.025	0.003
24	2.00	0.13	0.028	(0.790)	0.025	0.003
25	2.08	0.13	0.028	(0.787)	0.025	0.003
26	2.17	0.13	0.028	(0.784)	0.025	0.003
27	2.25	0.13	0.028	(0.781)	0.025	0.003
28	2.33	0.13	0.028	(0.778)	0.025	0.003
29	2.42	0.13	0.028	(0.774)	0.025	0.003
30	2.50	0.13	0.028	(0.771)	0.025	0.003
31	2.58	0.17	0.035	(0.768)	0.031	0.003
32	2.67	0.17	0.035	(0.765)	0.031	0.003
33	2.75	0.17	0.035	(0.762)	0.031	0.003
34	2.83	0.17	0.035	(0.759)	0.031	0.003
35	2.92	0.17	0.035	(0.756)	0.031	0.003
36	3.00	0.17	0.035	(0.752)	0.031	0.003
37	3.08	0.17	0.035	(0.749)	0.031	0.003
38	3.17	0.17	0.035	(0.746)	0.031	0.003

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.035	(0.743)	0.031	0.003
40	3.33	0.17	0.035	(0.740)	0.031	0.003
41	3.42	0.17	0.035	(0.737)	0.031	0.003
42	3.50	0.17	0.035	(0.734)	0.031	0.003
43	3.58	0.17	0.035	(0.731)	0.031	0.003
44	3.67	0.17	0.035	(0.728)	0.031	0.003
45	3.75	0.17	0.035	(0.725)	0.031	0.003
46	3.83	0.20	0.042	(0.722)	0.038	0.004
47	3.92	0.20	0.042	(0.719)	0.038	0.004
48	4.00	0.20	0.042	(0.715)	0.038	0.004
49	4.08	0.20	0.042	(0.712)	0.038	0.004
50	4.17	0.20	0.042	(0.709)	0.038	0.004
51	4.25	0.20	0.042	(0.706)	0.038	0.004
52	4.33	0.23	0.049	(0.703)	0.044	0.005
53	4.42	0.23	0.049	(0.700)	0.044	0.005
54	4.50	0.23	0.049	(0.697)	0.044	0.005
55	4.58	0.23	0.049	(0.694)	0.044	0.005
56	4.67	0.23	0.049	(0.691)	0.044	0.005
57	4.75	0.23	0.049	(0.688)	0.044	0.005
58	4.83	0.27	0.056	(0.685)	0.050	0.006
59	4.92	0.27	0.056	(0.683)	0.050	0.006
60	5.00	0.27	0.056	(0.680)	0.050	0.006
61	5.08	0.20	0.042	(0.677)	0.038	0.004
62	5.17	0.20	0.042	(0.674)	0.038	0.004
63	5.25	0.20	0.042	(0.671)	0.038	0.004
64	5.33	0.23	0.049	(0.668)	0.044	0.005
65	5.42	0.23	0.049	(0.665)	0.044	0.005
66	5.50	0.23	0.049	(0.662)	0.044	0.005
67	5.58	0.27	0.056	(0.659)	0.050	0.006
68	5.67	0.27	0.056	(0.656)	0.050	0.006
69	5.75	0.27	0.056	(0.653)	0.050	0.006
70	5.83	0.27	0.056	(0.650)	0.050	0.006
71	5.92	0.27	0.056	(0.647)	0.050	0.006
72	6.00	0.27	0.056	(0.645)	0.050	0.006
73	6.08	0.30	0.063	(0.642)	0.057	0.006
74	6.17	0.30	0.063	(0.639)	0.057	0.006
75	6.25	0.30	0.063	(0.636)	0.057	0.006
76	6.33	0.30	0.063	(0.633)	0.057	0.006
77	6.42	0.30	0.063	(0.630)	0.057	0.006
78	6.50	0.30	0.063	(0.628)	0.057	0.006
79	6.58	0.33	0.070	(0.625)	0.063	0.007
80	6.67	0.33	0.070	(0.622)	0.063	0.007
81	6.75	0.33	0.070	(0.619)	0.063	0.007
82	6.83	0.33	0.070	(0.616)	0.063	0.007
83	6.92	0.33	0.070	(0.614)	0.063	0.007
84	7.00	0.33	0.070	(0.611)	0.063	0.007
85	7.08	0.33	0.070	(0.608)	0.063	0.007
86	7.17	0.33	0.070	(0.605)	0.063	0.007
87	7.25	0.33	0.070	(0.602)	0.063	0.007
88	7.33	0.37	0.077	(0.600)	0.069	0.008
89	7.42	0.37	0.077	(0.597)	0.069	0.008
90	7.50	0.37	0.077	(0.594)	0.069	0.008
91	7.58	0.40	0.084	(0.591)	0.076	0.008
92	7.67	0.40	0.084	(0.589)	0.076	0.008
93	7.75	0.40	0.084	(0.586)	0.076	0.008
94	7.83	0.43	0.091	(0.583)	0.082	0.009
95	7.92	0.43	0.091	(0.581)	0.082	0.009
96	8.00	0.43	0.091	(0.578)	0.082	0.009
97	8.08	0.50	0.105	(0.575)	0.094	0.010
98	8.17	0.50	0.105	(0.573)	0.094	0.010
99	8.25	0.50	0.105	(0.570)	0.094	0.010
100	8.33	0.50	0.105	(0.567)	0.094	0.010
101	8.42	0.50	0.105	(0.565)	0.094	0.010
102	8.50	0.50	0.105	(0.562)	0.094	0.010
103	8.58	0.53	0.112	(0.559)	0.101	0.011
104	8.67	0.53	0.112	(0.557)	0.101	0.011
105	8.75	0.53	0.112	(0.554)	0.101	0.011
106	8.83	0.57	0.119	(0.551)	0.107	0.012
107	8.92	0.57	0.119	(0.549)	0.107	0.012
108	9.00	0.57	0.119	(0.546)	0.107	0.012
109	9.08	0.63	0.133	(0.544)	0.120	0.013
110	9.17	0.63	0.133	(0.541)	0.120	0.013
111	9.25	0.63	0.133	(0.539)	0.120	0.013
112	9.33	0.67	0.140	(0.536)	0.126	0.014
113	9.42	0.67	0.140	(0.533)	0.126	0.014
114	9.50	0.67	0.140	(0.531)	0.126	0.014
115	9.58	0.70	0.147	(0.528)	0.132	0.015

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX224

116	9.67	0.70	0.147	(0.526)	0.132	0.015
117	9.75	0.70	0.147	(0.523)	0.132	0.015
118	9.83	0.73	0.154	(0.521)	0.139	0.015
119	9.92	0.73	0.154	(0.518)	0.139	0.015
120	10.00	0.73	0.154	(0.516)	0.139	0.015
121	10.08	0.50	0.105	(0.513)	0.094	0.010
122	10.17	0.50	0.105	(0.511)	0.094	0.010
123	10.25	0.50	0.105	(0.508)	0.094	0.010
124	10.33	0.50	0.105	(0.506)	0.094	0.010
125	10.42	0.50	0.105	(0.503)	0.094	0.010
126	10.50	0.50	0.105	(0.501)	0.094	0.010
127	10.58	0.67	0.140	(0.498)	0.126	0.014
128	10.67	0.67	0.140	(0.496)	0.126	0.014
129	10.75	0.67	0.140	(0.494)	0.126	0.014
130	10.83	0.67	0.140	(0.491)	0.126	0.014
131	10.92	0.67	0.140	(0.489)	0.126	0.014
132	11.00	0.67	0.140	(0.486)	0.126	0.014
133	11.08	0.63	0.133	(0.484)	0.120	0.013
134	11.17	0.63	0.133	(0.482)	0.120	0.013
135	11.25	0.63	0.133	(0.479)	0.120	0.013
136	11.33	0.63	0.133	(0.477)	0.120	0.013
137	11.42	0.63	0.133	(0.474)	0.120	0.013
138	11.50	0.63	0.133	(0.472)	0.120	0.013
139	11.58	0.57	0.119	(0.470)	0.107	0.012
140	11.67	0.57	0.119	(0.467)	0.107	0.012
141	11.75	0.57	0.119	(0.465)	0.107	0.012
142	11.83	0.60	0.126	(0.463)	0.113	0.013
143	11.92	0.60	0.126	(0.460)	0.113	0.013
144	12.00	0.60	0.126	(0.458)	0.113	0.013
145	12.08	0.83	0.175	(0.456)	0.157	0.017
146	12.17	0.83	0.175	(0.454)	0.157	0.017
147	12.25	0.83	0.175	(0.451)	0.157	0.017
148	12.33	0.87	0.182	(0.449)	0.164	0.018
149	12.42	0.87	0.182	(0.447)	0.164	0.018
150	12.50	0.87	0.182	(0.445)	0.164	0.018
151	12.58	0.93	0.196	(0.442)	0.176	0.020
152	12.67	0.93	0.196	(0.440)	0.176	0.020
153	12.75	0.93	0.196	(0.438)	0.176	0.020
154	12.83	0.97	0.203	(0.436)	0.183	0.020
155	12.92	0.97	0.203	(0.433)	0.183	0.020
156	13.00	0.97	0.203	(0.431)	0.183	0.020
157	13.08	1.13	0.238	(0.429)	0.214	0.024
158	13.17	1.13	0.238	(0.427)	0.214	0.024
159	13.25	1.13	0.238	(0.425)	0.214	0.024
160	13.33	1.13	0.238	(0.423)	0.214	0.024
161	13.42	1.13	0.238	(0.420)	0.214	0.024
162	13.50	1.13	0.238	(0.418)	0.214	0.024
163	13.58	0.77	0.161	(0.416)	0.145	0.016
164	13.67	0.77	0.161	(0.414)	0.145	0.016
165	13.75	0.77	0.161	(0.412)	0.145	0.016
166	13.83	0.77	0.161	(0.410)	0.145	0.016
167	13.92	0.77	0.161	(0.408)	0.145	0.016
168	14.00	0.77	0.161	(0.406)	0.145	0.016
169	14.08	0.90	0.189	(0.404)	0.170	0.019
170	14.17	0.90	0.189	(0.402)	0.170	0.019
171	14.25	0.90	0.189	(0.399)	0.170	0.019
172	14.33	0.87	0.182	(0.397)	0.164	0.018
173	14.42	0.87	0.182	(0.395)	0.164	0.018
174	14.50	0.87	0.182	(0.393)	0.164	0.018
175	14.58	0.87	0.182	(0.391)	0.164	0.018
176	14.67	0.87	0.182	(0.389)	0.164	0.018
177	14.75	0.87	0.182	(0.387)	0.164	0.018
178	14.83	0.83	0.175	(0.385)	0.157	0.017
179	14.92	0.83	0.175	(0.383)	0.157	0.017
180	15.00	0.83	0.175	(0.381)	0.157	0.017
181	15.08	0.80	0.168	(0.379)	0.151	0.017
182	15.17	0.80	0.168	(0.378)	0.151	0.017
183	15.25	0.80	0.168	(0.376)	0.151	0.017
184	15.33	0.77	0.161	(0.374)	0.145	0.016
185	15.42	0.77	0.161	(0.372)	0.145	0.016
186	15.50	0.77	0.161	(0.370)	0.145	0.016
187	15.58	0.63	0.133	(0.368)	0.120	0.013
188	15.67	0.63	0.133	(0.366)	0.120	0.013
189	15.75	0.63	0.133	(0.364)	0.120	0.013
190	15.83	0.63	0.133	(0.362)	0.120	0.013
191	15.92	0.63	0.133	(0.360)	0.120	0.013
192	16.00	0.63	0.133	(0.359)	0.120	0.013

193	16.08	0.13	0.028	(0.357)	0.025	0.003
194	16.17	0.13	0.028	(0.355)	0.025	0.003
195	16.25	0.13	0.028	(0.353)	0.025	0.003
196	16.33	0.13	0.028	(0.351)	0.025	0.003
197	16.42	0.13	0.028	(0.350)	0.025	0.003
198	16.50	0.13	0.028	(0.348)	0.025	0.003
199	16.58	0.10	0.021	(0.346)	0.019	0.002
200	16.67	0.10	0.021	(0.344)	0.019	0.002
201	16.75	0.10	0.021	(0.343)	0.019	0.002
202	16.83	0.10	0.021	(0.341)	0.019	0.002
203	16.92	0.10	0.021	(0.339)	0.019	0.002
204	17.00	0.10	0.021	(0.337)	0.019	0.002
205	17.08	0.17	0.035	(0.336)	0.031	0.003
206	17.17	0.17	0.035	(0.334)	0.031	0.003
207	17.25	0.17	0.035	(0.332)	0.031	0.003
208	17.33	0.17	0.035	(0.331)	0.031	0.003
209	17.42	0.17	0.035	(0.329)	0.031	0.003
210	17.50	0.17	0.035	(0.327)	0.031	0.003
211	17.58	0.17	0.035	(0.326)	0.031	0.003
212	17.67	0.17	0.035	(0.324)	0.031	0.003
213	17.75	0.17	0.035	(0.322)	0.031	0.003
214	17.83	0.13	0.028	(0.321)	0.025	0.003
215	17.92	0.13	0.028	(0.319)	0.025	0.003
216	18.00	0.13	0.028	(0.318)	0.025	0.003
217	18.08	0.13	0.028	(0.316)	0.025	0.003
218	18.17	0.13	0.028	(0.315)	0.025	0.003
219	18.25	0.13	0.028	(0.313)	0.025	0.003
220	18.33	0.13	0.028	(0.311)	0.025	0.003
221	18.42	0.13	0.028	(0.310)	0.025	0.003
222	18.50	0.13	0.028	(0.308)	0.025	0.003
223	18.58	0.10	0.021	(0.307)	0.019	0.002
224	18.67	0.10	0.021	(0.305)	0.019	0.002
225	18.75	0.10	0.021	(0.304)	0.019	0.002
226	18.83	0.07	0.014	(0.303)	0.013	0.001
227	18.92	0.07	0.014	(0.301)	0.013	0.001
228	19.00	0.07	0.014	(0.300)	0.013	0.001
229	19.08	0.10	0.021	(0.298)	0.019	0.002
230	19.17	0.10	0.021	(0.297)	0.019	0.002
231	19.25	0.10	0.021	(0.295)	0.019	0.002
232	19.33	0.13	0.028	(0.294)	0.025	0.003
233	19.42	0.13	0.028	(0.293)	0.025	0.003
234	19.50	0.13	0.028	(0.291)	0.025	0.003
235	19.58	0.10	0.021	(0.290)	0.019	0.002
236	19.67	0.10	0.021	(0.289)	0.019	0.002
237	19.75	0.10	0.021	(0.287)	0.019	0.002
238	19.83	0.07	0.014	(0.286)	0.013	0.001
239	19.92	0.07	0.014	(0.285)	0.013	0.001
240	20.00	0.07	0.014	(0.284)	0.013	0.001
241	20.08	0.10	0.021	(0.282)	0.019	0.002
242	20.17	0.10	0.021	(0.281)	0.019	0.002
243	20.25	0.10	0.021	(0.280)	0.019	0.002
244	20.33	0.10	0.021	(0.279)	0.019	0.002
245	20.42	0.10	0.021	(0.277)	0.019	0.002
246	20.50	0.10	0.021	(0.276)	0.019	0.002
247	20.58	0.10	0.021	(0.275)	0.019	0.002
248	20.67	0.10	0.021	(0.274)	0.019	0.002
249	20.75	0.10	0.021	(0.273)	0.019	0.002
250	20.83	0.07	0.014	(0.272)	0.013	0.001
251	20.92	0.07	0.014	(0.271)	0.013	0.001
252	21.00	0.07	0.014	(0.270)	0.013	0.001
253	21.08	0.10	0.021	(0.268)	0.019	0.002
254	21.17	0.10	0.021	(0.267)	0.019	0.002
255	21.25	0.10	0.021	(0.266)	0.019	0.002
256	21.33	0.07	0.014	(0.265)	0.013	0.001
257	21.42	0.07	0.014	(0.264)	0.013	0.001
258	21.50	0.07	0.014	(0.263)	0.013	0.001
259	21.58	0.10	0.021	(0.262)	0.019	0.002
260	21.67	0.10	0.021	(0.261)	0.019	0.002
261	21.75	0.10	0.021	(0.261)	0.019	0.002
262	21.83	0.07	0.014	(0.260)	0.013	0.001
263	21.92	0.07	0.014	(0.259)	0.013	0.001
264	22.00	0.07	0.014	(0.258)	0.013	0.001
265	22.08	0.10	0.021	(0.257)	0.019	0.002
266	22.17	0.10	0.021	(0.256)	0.019	0.002
267	22.25	0.10	0.021	(0.255)	0.019	0.002
268	22.33	0.07	0.014	(0.255)	0.013	0.001
269	22.42	0.07	0.014	(0.254)	0.013	0.001

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.014	(0.253)	0.013	0.001
271	22.58	0.07	0.014	(0.252)	0.013	0.001
272	22.67	0.07	0.014	(0.252)	0.013	0.001
273	22.75	0.07	0.014	(0.251)	0.013	0.001
274	22.83	0.07	0.014	(0.250)	0.013	0.001
275	22.92	0.07	0.014	(0.250)	0.013	0.001
276	23.00	0.07	0.014	(0.249)	0.013	0.001
277	23.08	0.07	0.014	(0.248)	0.013	0.001
278	23.17	0.07	0.014	(0.248)	0.013	0.001
279	23.25	0.07	0.014	(0.247)	0.013	0.001
280	23.33	0.07	0.014	(0.247)	0.013	0.001
281	23.42	0.07	0.014	(0.246)	0.013	0.001
282	23.50	0.07	0.014	(0.246)	0.013	0.001
283	23.58	0.07	0.014	(0.246)	0.013	0.001
284	23.67	0.07	0.014	(0.245)	0.013	0.001
285	23.75	0.07	0.014	(0.245)	0.013	0.001
286	23.83	0.07	0.014	(0.245)	0.013	0.001
287	23.92	0.07	0.014	(0.244)	0.013	0.001
288	24.00	0.07	0.014	(0.244)	0.013	0.001

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.1

Flood volume = Effective rainfall 0.17(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.0(Ac.Ft)
Total soil loss = 1.57(In)
Total soil loss = 8.806(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 42619.7 Cubic Feet
Total soil loss = 383577.2 Cubic Feet

Peak flow rate of this hydrograph = 1.573(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0003	0.03	Q				
0+15	0.0007	0.06	Q				
0+20	0.0012	0.07	Q				
0+25	0.0018	0.09	Q				
0+30	0.0026	0.11	Q				
0+35	0.0034	0.12	Q				
0+40	0.0043	0.13	Q				
0+45	0.0052	0.13	Q				
0+50	0.0061	0.14	Q				
0+55	0.0072	0.15	Q				
1+ 0	0.0083	0.17	Q				
1+ 5	0.0095	0.17	Q				
1+10	0.0106	0.16	Q				
1+15	0.0117	0.15	Q				
1+20	0.0127	0.15	Q				
1+25	0.0137	0.15	Q				
1+30	0.0147	0.15	Q				
1+35	0.0157	0.14	Q				
1+40	0.0167	0.14	Q				
1+45	0.0177	0.14	Q				
1+50	0.0187	0.15	Q				
1+55	0.0198	0.16	Q				
2+ 0	0.0210	0.17	Q				
2+ 5	0.0222	0.18	Q				
2+10	0.0235	0.18	Q				
2+15	0.0247	0.18	QV				
2+20	0.0260	0.18	QV				
2+25	0.0273	0.19	QV				
2+30	0.0286	0.19	QV				
2+35	0.0299	0.19	QV				
2+40	0.0313	0.20	QV				
2+45	0.0328	0.22	QV				
2+50	0.0343	0.22	QV				
2+55	0.0359	0.23	QV				
3+ 0	0.0375	0.23	QV				
3+ 5	0.0391	0.23	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.0407	0.23	QV	|	|	|	|
3+15	0.0423	0.23	QV	|	|	|	|
3+20	0.0439	0.23	QV	|	|	|	|
3+25	0.0455	0.24	QV	|	|	|	|
3+30	0.0472	0.24	QV	|	|	|	|
3+35	0.0488	0.24	QV	|	|	|	|
3+40	0.0504	0.24	Q V	|	|	|	|
3+45	0.0521	0.24	Q V	|	|	|	|
3+50	0.0537	0.24	Q V	|	|	|	|
3+55	0.0554	0.25	|QV	|	|	|	|
4+ 0	0.0573	0.27	|QV	|	|	|	|
4+ 5	0.0592	0.27	|QV	|	|	|	|
4+10	0.0611	0.28	|QV	|	|	|	|
4+15	0.0630	0.28	|QV	|	|	|	|
4+20	0.0649	0.28	|QV	|	|	|	|
4+25	0.0670	0.30	|QV	|	|	|	|
4+30	0.0691	0.31	|QV	|	|	|	|
4+35	0.0713	0.32	|QV	|	|	|	|
4+40	0.0735	0.32	|Q V	|	|	|	|
4+45	0.0757	0.32	|Q V	|	|	|	|
4+50	0.0780	0.33	|Q V	|	|	|	|
4+55	0.0804	0.34	|Q V	|	|	|	|
5+ 0	0.0828	0.36	|Q V	|	|	|	|
5+ 5	0.0853	0.36	|Q V	|	|	|	|
5+10	0.0876	0.34	|Q V	|	|	|	|
5+15	0.0898	0.31	|Q V	|	|	|	|
5+20	0.0919	0.31	|Q V	|	|	|	|
5+25	0.0940	0.31	|Q V	|	|	|	|
5+30	0.0963	0.32	|Q V	|	|	|	|
5+35	0.0985	0.33	|Q V	|	|	|	|
5+40	0.1009	0.35	|Q V	|	|	|	|
5+45	0.1034	0.36	|Q V	|	|	|	|
5+50	0.1059	0.37	|Q V	|	|	|	|
5+55	0.1085	0.37	|Q V	|	|	|	|
6+ 0	0.1110	0.37	|Q V	|	|	|	|
6+ 5	0.1136	0.38	|Q V	|	|	|	|
6+10	0.1163	0.39	|Q V	|	|	|	|
6+15	0.1191	0.41	|Q V	|	|	|	|
6+20	0.1219	0.41	|Q V	|	|	|	|
6+25	0.1248	0.42	|Q V	|	|	|	|
6+30	0.1277	0.42	|Q V	|	|	|	|
6+35	0.1306	0.42	|Q V	|	|	|	|
6+40	0.1336	0.44	|Q V	|	|	|	|
6+45	0.1367	0.45	|Q V	|	|	|	|
6+50	0.1399	0.46	|Q V	|	|	|	|
6+55	0.1431	0.46	|Q V	|	|	|	|
7+ 0	0.1463	0.47	|Q V	|	|	|	|
7+ 5	0.1495	0.47	|Q V	|	|	|	|
7+10	0.1528	0.47	|Q V	|	|	|	|
7+15	0.1560	0.47	|Q V	|	|	|	|
7+20	0.1593	0.47	|Q V	|	|	|	|
7+25	0.1626	0.49	|Q V	|	|	|	|
7+30	0.1661	0.50	| Q V	|	|	|	|
7+35	0.1696	0.51	| Q V	|	|	|	|
7+40	0.1733	0.53	| Q V	|	|	|	|
7+45	0.1770	0.54	| Q V	|	|	|	|
7+50	0.1808	0.55	| Q V	|	|	|	|
7+55	0.1848	0.57	| Q V	|	|	|	|
8+ 0	0.1888	0.59	| Q V	|	|	|	|
8+ 5	0.1930	0.60	| Q V	|	|	|	|
8+10	0.1974	0.63	| Q V	|	|	|	|
8+15	0.2019	0.67	| Q V	|	|	|	|
8+20	0.2066	0.68	| Q V	|	|	|	|
8+25	0.2114	0.69	| Q V	|	|	|	|
8+30	0.2161	0.69	| Q V	|	|	|	|
8+35	0.2210	0.70	| Q V|	|	|	|
8+40	0.2259	0.72	| Q V|	|	|	|
8+45	0.2310	0.73	| Q V|	|	|	|
8+50	0.2361	0.74	| Q V|	|	|	|
8+55	0.2413	0.76	| Q V|	|	|	|
9+ 0	0.2467	0.78	| Q V	|	|	|
9+ 5	0.2522	0.79	| Q V	|	|	|
9+10	0.2578	0.82	| Q V	|	|	|
9+15	0.2637	0.86	| Q V	|	|	|
9+20	0.2697	0.87	| Q |V	|	|	|
9+25	0.2759	0.89	| Q |V	|	|	|
9+30	0.2822	0.91	| Q |V	|	|	|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

9+35	0.2886	0.93	Q	V
9+40	0.2951	0.95	Q	V
9+45	0.3017	0.96	Q	V
9+50	0.3084	0.98	Q	V
9+55	0.3153	1.00	Q	V
10+ 0	0.3223	1.01	Q	V
10+ 5	0.3292	1.00	Q	V
10+10	0.3354	0.91	Q	V
10+15	0.3411	0.82	Q	V
10+20	0.3465	0.78	Q	V
10+25	0.3518	0.76	Q	V
10+30	0.3569	0.75	Q	V
10+35	0.3621	0.76	Q	V
10+40	0.3678	0.82	Q	V
10+45	0.3738	0.88	Q	V
10+50	0.3800	0.90	Q	V
10+55	0.3863	0.91	Q	V
11+ 0	0.3927	0.92	Q	V
11+ 5	0.3991	0.92	Q	V
11+10	0.4054	0.92	Q	V
11+15	0.4116	0.90	Q	V
11+20	0.4178	0.90	Q	V
11+25	0.4240	0.90	Q	V
11+30	0.4302	0.90	Q	V
11+35	0.4364	0.89	Q	V
11+40	0.4423	0.87	Q	V
11+45	0.4481	0.84	Q	V
11+50	0.4539	0.83	Q	V
11+55	0.4597	0.84	Q	V
12+ 0	0.4655	0.85	Q	V
12+ 5	0.4715	0.87	Q	V
12+10	0.4782	0.97	Q	V
12+15	0.4855	1.06	Q	V
12+20	0.4931	1.10	Q	V
12+25	0.5009	1.14	Q	V
12+30	0.5090	1.17	Q	V
12+35	0.5172	1.19	Q	V
12+40	0.5257	1.23	Q	V
12+45	0.5344	1.26	Q	V
12+50	0.5432	1.29	Q	V
12+55	0.5523	1.31	Q	V
13+ 0	0.5614	1.33	Q	V
13+ 5	0.5708	1.36	Q	V
13+10	0.5807	1.43	Q	V
13+15	0.5911	1.51	Q	V
13+20	0.6017	1.54	Q	V
13+25	0.6125	1.56	Q	V
13+30	0.6233	1.57	Q	V
13+35	0.6340	1.55	Q	V
13+40	0.6437	1.41	Q	V
13+45	0.6524	1.27	Q	V
13+50	0.6607	1.21	Q	V
13+55	0.6688	1.18	Q	V
14+ 0	0.6767	1.15	Q	V
14+ 5	0.6846	1.15	Q	V
14+10	0.6929	1.19	Q	V
14+15	0.7014	1.24	Q	V
14+20	0.7100	1.25	Q	V
14+25	0.7186	1.24	Q	V
14+30	0.7271	1.23	Q	V
14+35	0.7356	1.23	Q	V
14+40	0.7440	1.23	Q	V
14+45	0.7525	1.23	Q	V
14+50	0.7609	1.22	Q	V
14+55	0.7693	1.21	Q	V
15+ 0	0.7775	1.20	Q	V
15+ 5	0.7858	1.19	Q	V
15+10	0.7938	1.18	Q	V
15+15	0.8018	1.16	Q	V
15+20	0.8098	1.15	Q	V
15+25	0.8176	1.13	Q	V
15+30	0.8253	1.12	Q	V
15+35	0.8328	1.10	Q	V
15+40	0.8399	1.04	Q	V
15+45	0.8467	0.98	Q	V
15+50	0.8533	0.95	Q	V
15+55	0.8597	0.94	Q	V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
16+ 0       0.8661      0.93  |  Q       |          |          |    V     |
16+ 5       0.8722      0.88  |  Q       |          |          |    V     |
16+10       0.8768      0.67  | Q        |          |          |    V     |
16+15       0.8800      0.46  |Q         |          |          |    V     |
16+20       0.8825      0.37  |Q         |          |          |     V    |
16+25       0.8848      0.32  |Q         |          |          |     V    |
16+30       0.8867      0.29  |Q         |          |          |     V    |
16+35       0.8885      0.26  |Q         |          |          |     V    |
16+40       0.8901      0.23  Q          |          |          |     V    |
16+45       0.8915      0.20  Q          |          |          |     V    |
16+50       0.8928      0.18  Q          |          |          |     V    |
16+55       0.8940      0.17  Q          |          |          |     V    |
17+ 0       0.8951      0.16  Q          |          |          |     V    |
17+ 5       0.8962      0.16  Q          |          |          |     V    |
17+10       0.8975      0.19  Q          |          |          |     V    |
17+15       0.8989      0.21  Q          |          |          |     V    |
17+20       0.9004      0.22  Q          |          |          |     V    |
17+25       0.9020      0.22  Q          |          |          |     V    |
17+30       0.9035      0.23  Q          |          |          |     V    |
17+35       0.9051      0.23  Q          |          |          |      V   |
17+40       0.9067      0.23  Q          |          |          |      V   |
17+45       0.9082      0.23  Q          |          |          |      V   |
17+50       0.9098      0.23  Q          |          |          |      V   |
17+55       0.9113      0.22  Q          |          |          |      V   |
18+ 0       0.9127      0.20  Q          |          |          |      V   |
18+ 5       0.9141      0.20  Q          |          |          |      V   |
18+10       0.9155      0.20  Q          |          |          |      V   |
18+15       0.9168      0.20  Q          |          |          |      V   |
18+20       0.9182      0.19  Q          |          |          |      V   |
18+25       0.9195      0.19  Q          |          |          |      V   |
18+30       0.9208      0.19  Q          |          |          |      V   |
18+35       0.9221      0.19  Q          |          |          |      V   |
18+40       0.9233      0.17  Q          |          |          |      V   |
18+45       0.9244      0.16  Q          |          |          |      V   |
18+50       0.9255      0.15  Q          |          |          |      V   |
18+55       0.9264      0.13  Q          |          |          |      V   |
19+ 0       0.9272      0.12  Q          |          |          |      V   |
19+ 5       0.9280      0.11  Q          |          |          |      V   |
19+10       0.9288      0.12  Q          |          |          |      V   |
19+15       0.9298      0.13  Q          |          |          |       V  |
19+20       0.9307      0.14  Q          |          |          |       V  |
19+25       0.9318      0.16  Q          |          |          |       V  |
19+30       0.9330      0.17  Q          |          |          |       V  |
19+35       0.9341      0.17  Q          |          |          |       V  |
19+40       0.9353      0.16  Q          |          |          |       V  |
19+45       0.9363      0.15  Q          |          |          |       V  |
19+50       0.9373      0.14  Q          |          |          |       V  |
19+55       0.9382      0.13  Q          |          |          |       V  |
20+ 0       0.9390      0.11  Q          |          |          |       V  |
20+ 5       0.9398      0.11  Q          |          |          |       V  |
20+10       0.9406      0.12  Q          |          |          |       V  |
20+15       0.9415      0.13  Q          |          |          |       V  |
20+20       0.9424      0.14  Q          |          |          |       V  |
20+25       0.9434      0.14  Q          |          |          |       V  |
20+30       0.9444      0.14  Q          |          |          |       V  |
20+35       0.9453      0.14  Q          |          |          |       V  |
20+40       0.9463      0.14  Q          |          |          |       V  |
20+45       0.9473      0.14  Q          |          |          |       V  |
20+50       0.9482      0.14  Q          |          |          |       V  |
20+55       0.9491      0.12  Q          |          |          |       V  |
21+ 0       0.9498      0.11  Q          |          |          |       V  |
21+ 5       0.9506      0.11  Q          |          |          |       V  |
21+10       0.9514      0.12  Q          |          |          |       V  |
21+15       0.9523      0.13  Q          |          |          |       V  |
21+20       0.9532      0.13  Q          |          |          |       V  |
21+25       0.9540      0.12  Q          |          |          |        V |
21+30       0.9548      0.11  Q          |          |          |        V |
21+35       0.9555      0.11  Q          |          |          |        V |
21+40       0.9563      0.12  Q          |          |          |        V |
21+45       0.9572      0.13  Q          |          |          |        V |
21+50       0.9581      0.13  Q          |          |          |        V |
21+55       0.9589      0.12  Q          |          |          |        V |
22+ 0       0.9597      0.11  Q          |          |          |        V |
22+ 5       0.9604      0.11  Q          |          |          |        V |
22+10       0.9612      0.12  Q          |          |          |        V |
22+15       0.9621      0.13  Q          |          |          |        V |
22+20       0.9630      0.13  Q          |          |          |        V |
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX224

22+25	0.9638	0.12	Q	|	|	|	V|
22+30	0.9646	0.11	Q	|	|	|	V|
22+35	0.9653	0.10	Q	|	|	|	V|
22+40	0.9660	0.10	Q	|	|	|	V|
22+45	0.9667	0.10	Q	|	|	|	V|
22+50	0.9673	0.10	Q	|	|	|	V|
22+55	0.9680	0.10	Q	|	|	|	V|
23+ 0	0.9687	0.10	Q	|	|	|	V|
23+ 5	0.9693	0.10	Q	|	|	|	V|
23+10	0.9700	0.10	Q	|	|	|	V|
23+15	0.9707	0.10	Q	|	|	|	V|
23+20	0.9713	0.10	Q	|	|	|	V|
23+25	0.9720	0.10	Q	|	|	|	V|
23+30	0.9726	0.09	Q	|	|	|	V|
23+35	0.9733	0.09	Q	|	|	|	V|
23+40	0.9739	0.09	Q	|	|	|	V|
23+45	0.9746	0.09	Q	|	|	|	V|
23+50	0.9752	0.09	Q	|	|	|	V|
23+55	0.9759	0.09	Q	|	|	|	V|
24+ 0	0.9765	0.09	Q	|	|	|	V|
24+ 5	0.9771	0.09	Q	|	|	|	V|
24+10	0.9776	0.06	Q	|	|	|	V|
24+15	0.9778	0.03	Q	|	|	|	V|
24+20	0.9780	0.02	Q	|	|	|	V|
24+25	0.9781	0.02	Q	|	|	|	V|
24+30	0.9782	0.01	Q	|	|	|	V|
24+35	0.9782	0.01	Q	|	|	|	V|
24+40	0.9783	0.01	Q	|	|	|	V|
24+45	0.9783	0.01	Q	|	|	|	V|
24+50	0.9784	0.00	Q	|	|	|	V|
24+55	0.9784	0.00	Q	|	|	|	V|
25+ 0	0.9784	0.00	Q	|	|	|	V|
25+ 5	0.9784	0.00	Q	|	|	|	V|
25+10	0.9784	0.00	Q	|	|	|	V|
25+15	0.9784	0.00	Q	|	|	|	V|

3828EX515

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX515.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
0.00	0.50	0.00
0.00	0.01	0.00
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)

```
      76.0  58.2      0.488     0.000        0.488       1.000      0.488
                                                       Sum (F) =   0.488
      Area averaged mean soil loss (F) (In/Hr) =  0.488
      Minimum soil loss rate ((In/Hr)) =  0.244
      (for 24 hour storm duration)
      Soil low loss rate (decimal) =   0.900
      ------------------------------------------------------------------------
      Slope of intensity-duration curve for a 1 hour storm =0.5000
      ------------------------------------------------------------------------

                   U n i t  H y d r o g r a p h
                          VALLEY S-Curve
      ------------------------------------------------------------------------
                   Unit Hydrograph Data
      ------------------------------------------------------------------------
      Unit time period   Time % of lag   Distribution   Unit Hydrograph
          (hrs)                          Graph %           (CFS)
      ------------------------------------------------------------------------
          1   0.083         52.307          6.571             4.443
          2   0.167        104.614         28.083            18.991
          3   0.250        156.922         28.549            19.306
          4   0.333        209.229         12.179             8.236
          5   0.417        261.536          6.595             4.460
          6   0.500        313.843          4.589             3.103
          7   0.583        366.151          3.296             2.229
          8   0.667        418.458          2.462             1.665
          9   0.750        470.765          1.797             1.215
         10   0.833        523.072          1.548             1.047
         11   0.917        575.380          1.191             0.806
         12   1.000        627.687          0.940             0.636
         13   1.083        679.994          0.721             0.488
         14   1.167        732.301          0.542             0.367
         15   1.250        784.608          0.523             0.354
         16   1.333        836.916          0.415             0.281
                                    Sum = 100.000   Sum=      67.624
    ------------------------------------------------------------------------

     The following loss rate calculations reflect use of the minimum calculated loss
     rate subtracted from the Storm Rain to produce the maximum Effective Rain value

      Unit Time   Pattern   Storm Rain     Loss rate(In./Hr)     Effective
           (Hr.)  Percent   (In/Hr)         Max   |   Low        (In/Hr)
       1   0.08     4.20      0.334       (  0.488)       0.301        0.033
       2   0.17     4.30      0.342       (  0.488)       0.308        0.034
       3   0.25     5.00      0.398       (  0.488)       0.358        0.040
       4   0.33     5.00      0.398       (  0.488)       0.358        0.040
       5   0.42     5.80      0.462       (  0.488)       0.416        0.046
       6   0.50     6.50      0.518       (  0.488)       0.466        0.052
       7   0.58     7.40      0.589          0.488    (  0.530)        0.101
       8   0.67     8.60      0.685          0.488    (  0.616)        0.196
       9   0.75    12.30      0.979          0.488    (  0.881)        0.491
      10   0.83    29.10      2.317          0.488    (  2.085)        1.829
      11   0.92     6.80      0.541       (  0.488)       0.487        0.054
      12   1.00     5.00      0.398       (  0.488)       0.358        0.040
                    (Loss Rate Not Used)
         Sum =     100.0                                  Sum =     3.0
            Flood volume = Effective rainfall      0.25(In)
             times area      67.1(Ac.)/[(In)/(Ft.)] =       1.4(Ac.Ft)
            Total soil loss =      0.42(In)
            Total soil loss =     2.333(Ac.Ft)
            Total rainfall =      0.66(In)
            Flood volume =       60006.7 Cubic Feet
            Total soil loss =      101616.9 Cubic Feet
            ------------------------------------------------------------------------
             Peak flow rate of this hydrograph =     46.983(CFS)
            ------------------------------------------------------------------------
            ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                              1 - H O U R    S T O R M
                          R u n o f f      H y d r o g r a p h
            ------------------------------------------------------------------------
                       Hydrograph in   5   Minute intervals ((CFS))

            ------------------------------------------------------------------------
     Time(h+m) Volume Ac.Ft   Q(CFS)  0       12.5      25.0      37.5      50.0
     ------------------------------------------------------------------------
       0+ 5       0.0010      0.15  Q         |         |         |         |
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX515

0+10	0.0064	0.79	Q
0+15	0.0166	1.47	VQ
0+20	0.0295	1.87	VQ
0+25	0.0444	2.16	|Q
0+30	0.0613	2.46	|Q
0+35	0.0821	3.01	| Q
0+40	0.1138	4.60	| Q
0+45	0.1744	8.81	| V Q
0+50	0.3307	22.69	| V | Q
0+55	0.6543	46.98	| | V | Q
1+ 0	0.9442	42.10	| | | V | Q
1+ 5	1.0830	20.15	| | Q | |V
1+10	1.1636	11.70	| Q| | | V
1+15	1.2183	7.95	| Q | | | V
1+20	1.2577	5.71	| Q | | | V
1+25	1.2871	4.27	| Q | | | V
1+30	1.3092	3.21	| Q | | | V
1+35	1.3275	2.66	| Q | | | V
1+40	1.3417	2.06	|Q | | | V
1+45	1.3528	1.61	|Q | | | V|
1+50	1.3613	1.24	Q | | | V|
1+55	1.3678	0.95	Q | | | V|
2+ 0	1.3735	0.82	Q | | | V|
2+ 5	1.3773	0.55	Q | | | V|
2+10	1.3775	0.03	Q | | | V|
2+15	1.3776	0.01	Q | | | V

3828EX535

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX535.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

3828EX535

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.488)	0.147	0.016
2	0.17	1.30	0.163	(0.488)	0.147	0.016
3	0.25	1.10	0.138	(0.488)	0.124	0.014
4	0.33	1.50	0.189	(0.488)	0.170	0.019
5	0.42	1.50	0.189	(0.488)	0.170	0.019
6	0.50	1.80	0.226	(0.488)	0.204	0.023
7	0.58	1.50	0.189	(0.488)	0.170	0.019
8	0.67	1.80	0.226	(0.488)	0.204	0.023
9	0.75	1.80	0.226	(0.488)	0.204	0.023
10	0.83	1.50	0.189	(0.488)	0.170	0.019
11	0.92	1.60	0.201	(0.488)	0.181	0.020
12	1.00	1.80	0.226	(0.488)	0.204	0.023
13	1.08	2.20	0.277	(0.488)	0.249	0.028
14	1.17	2.20	0.277	(0.488)	0.249	0.028
15	1.25	2.20	0.277	(0.488)	0.249	0.028
16	1.33	2.00	0.252	(0.488)	0.226	0.025
17	1.42	2.60	0.327	(0.488)	0.294	0.033
18	1.50	2.70	0.340	(0.488)	0.306	0.034
19	1.58	2.40	0.302	(0.488)	0.272	0.030
20	1.67	2.70	0.340	(0.488)	0.306	0.034
21	1.75	3.30	0.415	(0.488)	0.373	0.041
22	1.83	3.10	0.390	(0.488)	0.351	0.039
23	1.92	2.90	0.365	(0.488)	0.328	0.036
24	2.00	3.00	0.377	(0.488)	0.340	0.038
25	2.08	3.10	0.390	(0.488)	0.351	0.039
26	2.17	4.20	0.528	(0.488)	0.475	0.053
27	2.25	5.00	0.629	0.488	(0.566)	0.140
28	2.33	3.50	0.440	(0.488)	0.396	0.044
29	2.42	6.80	0.855	0.488	(0.770)	0.367
30	2.50	7.30	0.918	0.488	(0.826)	0.430
31	2.58	8.20	1.031	0.488	(0.928)	0.543
32	2.67	5.90	0.742	0.488	(0.668)	0.254
33	2.75	2.00	0.252	(0.488)	0.226	0.025
34	2.83	1.80	0.226	(0.488)	0.204	0.023
35	2.92	1.80	0.226	(0.488)	0.204	0.023
36	3.00	0.60	0.075	(0.488)	0.068	0.008
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	2.6

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Flood volume = Effective rainfall 0.21(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.2(Ac.Ft)
Total soil loss = 0.83(In)
Total soil loss = 4.661(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 52233.5 Cubic Feet
Total soil loss = 203023.7 Cubic Feet

Peak flow rate of this hydrograph = 23.769(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0005	0.07	Q				
0+10	0.0031	0.38	Q				
0+15	0.0079	0.69	Q				
0+20	0.0134	0.80	VQ				
0+25	0.0197	0.92	VQ				
0+30	0.0270	1.06	VQ				
0+35	0.0351	1.18	|Q				
0+40	0.0437	1.24	|Q				
0+45	0.0527	1.30	|Q				
0+50	0.0621	1.37	|QV				
0+55	0.0714	1.35	|QV				
1+ 0	0.0806	1.34	|QV				
1+ 5	0.0903	1.42	|Q V				
1+10	0.1012	1.57	| QV				
1+15	0.1129	1.70	| QV				
1+20	0.1249	1.75	| Q V				
1+25	0.1370	1.76	| Q V				
1+30	0.1500	1.88	| Q V				
1+35	0.1640	2.03	| Q V				
1+40	0.1782	2.07	| Q V				
1+45	0.1930	2.14	| Q V				
1+50	0.2092	2.35	| Q V				
1+55	0.2262	2.47	| Q V				
2+ 0	0.2431	2.46	| Q V				
2+ 5	0.2601	2.47	| Q V				
2+10	0.2779	2.58	| Q V|				
2+15	0.3005	3.28	| Q V				
2+20	0.3336	4.80	| Q |V				
2+25	0.3765	6.23	| Q | V				
2+30	0.4562	11.57	| Q				
2+35	0.5881	19.15	| V| Q				
2+40	0.7518	23.77	| V |Q				
2+45	0.8986	21.32	| QV|				
2+50	0.9919	13.55	| Q | V				
2+55	1.0477	8.09	| Q | V				
3+ 0	1.0878	5.82	| Q | V				
3+ 5	1.1173	4.29	| Q | V				
3+10	1.1385	3.08	| Q | V				
3+15	1.1540	2.26	| Q | V				
3+20	1.1661	1.76	| Q | V				
3+25	1.1756	1.38	|Q | V|				
3+30	1.1829	1.06	|Q | V|				
3+35	1.1885	0.81	|Q | V|				
3+40	1.1929	0.65	Q | V|				
3+45	1.1961	0.46	Q | V|				
3+50	1.1980	0.28	Q | V|				
3+55	1.1987	0.10	Q | V|				
4+ 0	1.1989	0.03	Q | V|				
4+ 5	1.1990	0.02	Q | V|				
4+10	1.1991	0.01	Q | V|				
4+15	1.1991	0.00	Q | V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX565

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX565.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.488)	0.079	0.009
2	0.17	0.60	0.106	(0.488)	0.095	0.011
3	0.25	0.60	0.106	(0.488)	0.095	0.011
4	0.33	0.60	0.106	(0.488)	0.095	0.011
5	0.42	0.60	0.106	(0.488)	0.095	0.011
6	0.50	0.70	0.123	(0.488)	0.111	0.012
7	0.58	0.70	0.123	(0.488)	0.111	0.012
8	0.67	0.70	0.123	(0.488)	0.111	0.012
9	0.75	0.70	0.123	(0.488)	0.111	0.012
10	0.83	0.70	0.123	(0.488)	0.111	0.012
11	0.92	0.70	0.123	(0.488)	0.111	0.012
12	1.00	0.80	0.141	(0.488)	0.127	0.014
13	1.08	0.80	0.141	(0.488)	0.127	0.014
14	1.17	0.80	0.141	(0.488)	0.127	0.014
15	1.25	0.80	0.141	(0.488)	0.127	0.014
16	1.33	0.80	0.141	(0.488)	0.127	0.014
17	1.42	0.80	0.141	(0.488)	0.127	0.014
18	1.50	0.80	0.141	(0.488)	0.127	0.014
19	1.58	0.80	0.141	(0.488)	0.127	0.014
20	1.67	0.80	0.141	(0.488)	0.127	0.014
21	1.75	0.80	0.141	(0.488)	0.127	0.014
22	1.83	0.80	0.141	(0.488)	0.127	0.014
23	1.92	0.80	0.141	(0.488)	0.127	0.014
24	2.00	0.90	0.158	(0.488)	0.142	0.016
25	2.08	0.80	0.141	(0.488)	0.127	0.014
26	2.17	0.90	0.158	(0.488)	0.142	0.016
27	2.25	0.90	0.158	(0.488)	0.142	0.016
28	2.33	0.90	0.158	(0.488)	0.142	0.016
29	2.42	0.90	0.158	(0.488)	0.142	0.016
30	2.50	0.90	0.158	(0.488)	0.142	0.016
31	2.58	0.90	0.158	(0.488)	0.142	0.016
32	2.67	0.90	0.158	(0.488)	0.142	0.016
33	2.75	1.00	0.176	(0.488)	0.158	0.018
34	2.83	1.00	0.176	(0.488)	0.158	0.018
35	2.92	1.00	0.176	(0.488)	0.158	0.018
36	3.00	1.00	0.176	(0.488)	0.158	0.018
37	3.08	1.00	0.176	(0.488)	0.158	0.018
38	3.17	1.10	0.193	(0.488)	0.174	0.019

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.193	(	0.488)	0.174	0.019
40	3.33	1.10	0.193	(	0.488)	0.174	0.019
41	3.42	1.20	0.211	(	0.488)	0.190	0.021
42	3.50	1.30	0.229	(	0.488)	0.206	0.023
43	3.58	1.40	0.246	(	0.488)	0.222	0.025
44	3.67	1.40	0.246	(	0.488)	0.222	0.025
45	3.75	1.50	0.264	(	0.488)	0.237	0.026
46	3.83	1.50	0.264	(	0.488)	0.237	0.026
47	3.92	1.60	0.281	(	0.488)	0.253	0.028
48	4.00	1.60	0.281	(	0.488)	0.253	0.028
49	4.08	1.70	0.299	(	0.488)	0.269	0.030
50	4.17	1.80	0.317	(	0.488)	0.285	0.032
51	4.25	1.90	0.334	(	0.488)	0.301	0.033
52	4.33	2.00	0.352	(	0.488)	0.317	0.035
53	4.42	2.10	0.369	(	0.488)	0.332	0.037
54	4.50	2.10	0.369	(	0.488)	0.332	0.037
55	4.58	2.20	0.387	(	0.488)	0.348	0.039
56	4.67	2.30	0.405	(	0.488)	0.364	0.040
57	4.75	2.40	0.422	(	0.488)	0.380	0.042
58	4.83	2.40	0.422	(	0.488)	0.380	0.042
59	4.92	2.50	0.440	(	0.488)	0.396	0.044
60	5.00	2.60	0.457	(	0.488)	0.412	0.046
61	5.08	3.10	0.545		0.488	(0.491)	0.057
62	5.17	3.60	0.633		0.488	(0.570)	0.145
63	5.25	3.90	0.686		0.488	(0.617)	0.198
64	5.33	4.20	0.739		0.488	(0.665)	0.250
65	5.42	4.70	0.827		0.488	(0.744)	0.338
66	5.50	5.60	0.985		0.488	(0.887)	0.497
67	5.58	1.90	0.334	(	0.488)	0.301	0.033
68	5.67	0.90	0.158	(	0.488)	0.142	0.016
69	5.75	0.60	0.106	(	0.488)	0.095	0.011
70	5.83	0.50	0.088	(	0.488)	0.079	0.009
71	5.92	0.30	0.053	(	0.488)	0.047	0.005
72	6.00	0.20	0.035	(	0.488)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.8

Flood volume = Effective rainfall 0.23(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 1.23(In)
Total soil loss = 6.891(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 56885.3 Cubic Feet
Total soil loss = 300159.7 Cubic Feet

Peak flow rate of this hydrograph = 19.934(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0003	0.04	Q				
0+10	0.0017	0.21	Q				
0+15	0.0046	0.42	Q				
0+20	0.0082	0.52	VQ				
0+25	0.0122	0.58	VQ				
0+30	0.0165	0.62	VQ				
0+35	0.0212	0.68	VQ				
0+40	0.0262	0.73	VQ				
0+45	0.0314	0.76	VQ				
0+50	0.0368	0.78	|Q				
0+55	0.0422	0.79	|Q				
1+ 0	0.0478	0.81	|Q				
1+ 5	0.0537	0.85	|Q				
1+10	0.0599	0.89	|Q				
1+15	0.0662	0.91	|QV				
1+20	0.0726	0.93	|QV				
1+25	0.0790	0.93	|QV				
1+30	0.0854	0.94	|QV				
1+35	0.0919	0.94	|QV				
1+40	0.0984	0.94	|Q V				
1+45	0.1050	0.95	|Q V				
1+50	0.1115	0.95	|Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX565

1+55	0.1180	0.95	
2+ 0	0.1246	0.96	
2+ 5	0.1314	0.98	
2+10	0.1383	0.99	
2+15	0.1452	1.01	
2+20	0.1523	1.04	
2+25	0.1595	1.05	
2+30	0.1668	1.05	
2+35	0.1741	1.06	
2+40	0.1814	1.06	
2+45	0.1888	1.07	
2+50	0.1964	1.11	
2+55	0.2043	1.14	
3+ 0	0.2122	1.16	
3+ 5	0.2203	1.17	
3+10	0.2284	1.18	
3+15	0.2368	1.22	
3+20	0.2454	1.26	
3+25	0.2543	1.28	
3+30	0.2634	1.33	
3+35	0.2732	1.41	
3+40	0.2835	1.50	
3+45	0.2943	1.57	
3+50	0.3056	1.63	
3+55	0.3172	1.69	
4+ 0	0.3293	1.76	
4+ 5	0.3418	1.82	
4+10	0.3548	1.88	
4+15	0.3684	1.98	
4+20	0.3828	2.08	
4+25	0.3978	2.19	
4+30	0.4136	2.29	
4+35	0.4299	2.37	
4+40	0.4468	2.45	
4+45	0.4644	2.55	
4+50	0.4827	2.65	
4+55	0.5015	2.73	
5+ 0	0.5208	2.81	
5+ 5	0.5411	2.95	
5+10	0.5661	3.62	
5+15	0.6059	5.78	
5+20	0.6668	8.83	
5+25	0.7497	12.04	
5+30	0.8620	16.31	
5+35	0.9993	19.93	
5+40	1.1057	15.46	
5+45	1.1629	8.29	
5+50	1.1996	5.34	
5+55	1.2266	3.92	
6+ 0	1.2469	2.95	
6+ 5	1.2623	2.24	
6+10	1.2739	1.68	
6+15	1.2829	1.31	
6+20	1.2898	1.00	
6+25	1.2951	0.78	
6+30	1.2991	0.58	
6+35	1.3021	0.43	
6+40	1.3043	0.31	
6+45	1.3055	0.18	
6+50	1.3057	0.03	
6+55	1.3058	0.02	
7+ 0	1.3058	0.01	
7+ 5	1.3059	0.01	
7+10	1.3059	0.00	
7+15	1.3059	0.00	

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX5245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	58.2	0.488	0.000	0.488	1.000	0.488
					Sum (F) =	0.488

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.488
Minimum soil loss rate ((In/Hr)) = 0.244
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.866)	0.017	0.002
2	0.17	0.07	0.019	(0.862)	0.017	0.002
3	0.25	0.07	0.019	(0.859)	0.017	0.002
4	0.33	0.10	0.029	(0.856)	0.026	0.003
5	0.42	0.10	0.029	(0.852)	0.026	0.003
6	0.50	0.10	0.029	(0.849)	0.026	0.003
7	0.58	0.10	0.029	(0.846)	0.026	0.003
8	0.67	0.10	0.029	(0.842)	0.026	0.003
9	0.75	0.10	0.029	(0.839)	0.026	0.003
10	0.83	0.13	0.038	(0.836)	0.034	0.004
11	0.92	0.13	0.038	(0.833)	0.034	0.004
12	1.00	0.13	0.038	(0.829)	0.034	0.004
13	1.08	0.10	0.029	(0.826)	0.026	0.003
14	1.17	0.10	0.029	(0.823)	0.026	0.003
15	1.25	0.10	0.029	(0.819)	0.026	0.003
16	1.33	0.10	0.029	(0.816)	0.026	0.003
17	1.42	0.10	0.029	(0.813)	0.026	0.003
18	1.50	0.10	0.029	(0.810)	0.026	0.003
19	1.58	0.10	0.029	(0.806)	0.026	0.003
20	1.67	0.10	0.029	(0.803)	0.026	0.003
21	1.75	0.10	0.029	(0.800)	0.026	0.003
22	1.83	0.13	0.038	(0.797)	0.034	0.004
23	1.92	0.13	0.038	(0.794)	0.034	0.004
24	2.00	0.13	0.038	(0.790)	0.034	0.004
25	2.08	0.13	0.038	(0.787)	0.034	0.004
26	2.17	0.13	0.038	(0.784)	0.034	0.004
27	2.25	0.13	0.038	(0.781)	0.034	0.004
28	2.33	0.13	0.038	(0.778)	0.034	0.004
29	2.42	0.13	0.038	(0.774)	0.034	0.004
30	2.50	0.13	0.038	(0.771)	0.034	0.004
31	2.58	0.17	0.048	(0.768)	0.043	0.005
32	2.67	0.17	0.048	(0.765)	0.043	0.005
33	2.75	0.17	0.048	(0.762)	0.043	0.005
34	2.83	0.17	0.048	(0.759)	0.043	0.005
35	2.92	0.17	0.048	(0.756)	0.043	0.005
36	3.00	0.17	0.048	(0.752)	0.043	0.005
37	3.08	0.17	0.048	(0.749)	0.043	0.005
38	3.17	0.17	0.048	(0.746)	0.043	0.005

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	0.17	0.048	(0.743)	0.043	0.005
40	3.33	0.17	0.048	(0.740)	0.043	0.005
41	3.42	0.17	0.048	(0.737)	0.043	0.005
42	3.50	0.17	0.048	(0.734)	0.043	0.005
43	3.58	0.17	0.048	(0.731)	0.043	0.005
44	3.67	0.17	0.048	(0.728)	0.043	0.005
45	3.75	0.17	0.048	(0.725)	0.043	0.005
46	3.83	0.20	0.057	(0.722)	0.052	0.006
47	3.92	0.20	0.057	(0.719)	0.052	0.006
48	4.00	0.20	0.057	(0.715)	0.052	0.006
49	4.08	0.20	0.057	(0.712)	0.052	0.006
50	4.17	0.20	0.057	(0.709)	0.052	0.006
51	4.25	0.20	0.057	(0.706)	0.052	0.006
52	4.33	0.23	0.067	(0.703)	0.060	0.007
53	4.42	0.23	0.067	(0.700)	0.060	0.007
54	4.50	0.23	0.067	(0.697)	0.060	0.007
55	4.58	0.23	0.067	(0.694)	0.060	0.007
56	4.67	0.23	0.067	(0.691)	0.060	0.007
57	4.75	0.23	0.067	(0.688)	0.060	0.007
58	4.83	0.27	0.077	(0.685)	0.069	0.008
59	4.92	0.27	0.077	(0.683)	0.069	0.008
60	5.00	0.27	0.077	(0.680)	0.069	0.008
61	5.08	0.20	0.057	(0.677)	0.052	0.006
62	5.17	0.20	0.057	(0.674)	0.052	0.006
63	5.25	0.20	0.057	(0.671)	0.052	0.006
64	5.33	0.23	0.067	(0.668)	0.060	0.007
65	5.42	0.23	0.067	(0.665)	0.060	0.007
66	5.50	0.23	0.067	(0.662)	0.060	0.007
67	5.58	0.27	0.077	(0.659)	0.069	0.008
68	5.67	0.27	0.077	(0.656)	0.069	0.008
69	5.75	0.27	0.077	(0.653)	0.069	0.008
70	5.83	0.27	0.077	(0.650)	0.069	0.008
71	5.92	0.27	0.077	(0.647)	0.069	0.008
72	6.00	0.27	0.077	(0.645)	0.069	0.008
73	6.08	0.30	0.086	(0.642)	0.078	0.009
74	6.17	0.30	0.086	(0.639)	0.078	0.009
75	6.25	0.30	0.086	(0.636)	0.078	0.009
76	6.33	0.30	0.086	(0.633)	0.078	0.009
77	6.42	0.30	0.086	(0.630)	0.078	0.009
78	6.50	0.30	0.086	(0.628)	0.078	0.009
79	6.58	0.33	0.096	(0.625)	0.086	0.010
80	6.67	0.33	0.096	(0.622)	0.086	0.010
81	6.75	0.33	0.096	(0.619)	0.086	0.010
82	6.83	0.33	0.096	(0.616)	0.086	0.010
83	6.92	0.33	0.096	(0.614)	0.086	0.010
84	7.00	0.33	0.096	(0.611)	0.086	0.010
85	7.08	0.33	0.096	(0.608)	0.086	0.010
86	7.17	0.33	0.096	(0.605)	0.086	0.010
87	7.25	0.33	0.096	(0.602)	0.086	0.010
88	7.33	0.37	0.105	(0.600)	0.095	0.011
89	7.42	0.37	0.105	(0.597)	0.095	0.011
90	7.50	0.37	0.105	(0.594)	0.095	0.011
91	7.58	0.40	0.115	(0.591)	0.103	0.011
92	7.67	0.40	0.115	(0.589)	0.103	0.011
93	7.75	0.40	0.115	(0.586)	0.103	0.011
94	7.83	0.43	0.124	(0.583)	0.112	0.012
95	7.92	0.43	0.124	(0.581)	0.112	0.012
96	8.00	0.43	0.124	(0.578)	0.112	0.012
97	8.08	0.50	0.144	(0.575)	0.129	0.014
98	8.17	0.50	0.144	(0.573)	0.129	0.014
99	8.25	0.50	0.144	(0.570)	0.129	0.014
100	8.33	0.50	0.144	(0.567)	0.129	0.014
101	8.42	0.50	0.144	(0.565)	0.129	0.014
102	8.50	0.50	0.144	(0.562)	0.129	0.014
103	8.58	0.53	0.153	(0.559)	0.138	0.015
104	8.67	0.53	0.153	(0.557)	0.138	0.015
105	8.75	0.53	0.153	(0.554)	0.138	0.015
106	8.83	0.57	0.163	(0.551)	0.147	0.016
107	8.92	0.57	0.163	(0.549)	0.147	0.016
108	9.00	0.57	0.163	(0.546)	0.147	0.016
109	9.08	0.63	0.182	(0.544)	0.164	0.018
110	9.17	0.63	0.182	(0.541)	0.164	0.018
111	9.25	0.63	0.182	(0.539)	0.164	0.018
112	9.33	0.67	0.192	(0.536)	0.172	0.019
113	9.42	0.67	0.192	(0.533)	0.172	0.019
114	9.50	0.67	0.192	(0.531)	0.172	0.019
115	9.58	0.70	0.201	(0.528)	0.181	0.020

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX5245

116	9.67	0.70	0.201	(0.526)	0.181	0.020
117	9.75	0.70	0.201	(0.523)	0.181	0.020
118	9.83	0.73	0.211	(0.521)	0.190	0.021
119	9.92	0.73	0.211	(0.518)	0.190	0.021
120	10.00	0.73	0.211	(0.516)	0.190	0.021
121	10.08	0.50	0.144	(0.513)	0.129	0.014
122	10.17	0.50	0.144	(0.511)	0.129	0.014
123	10.25	0.50	0.144	(0.508)	0.129	0.014
124	10.33	0.50	0.144	(0.506)	0.129	0.014
125	10.42	0.50	0.144	(0.503)	0.129	0.014
126	10.50	0.50	0.144	(0.501)	0.129	0.014
127	10.58	0.67	0.192	(0.498)	0.172	0.019
128	10.67	0.67	0.192	(0.496)	0.172	0.019
129	10.75	0.67	0.192	(0.494)	0.172	0.019
130	10.83	0.67	0.192	(0.491)	0.172	0.019
131	10.92	0.67	0.192	(0.489)	0.172	0.019
132	11.00	0.67	0.192	(0.486)	0.172	0.019
133	11.08	0.63	0.182	(0.484)	0.164	0.018
134	11.17	0.63	0.182	(0.482)	0.164	0.018
135	11.25	0.63	0.182	(0.479)	0.164	0.018
136	11.33	0.63	0.182	(0.477)	0.164	0.018
137	11.42	0.63	0.182	(0.474)	0.164	0.018
138	11.50	0.63	0.182	(0.472)	0.164	0.018
139	11.58	0.57	0.163	(0.470)	0.147	0.016
140	11.67	0.57	0.163	(0.467)	0.147	0.016
141	11.75	0.57	0.163	(0.465)	0.147	0.016
142	11.83	0.60	0.172	(0.463)	0.155	0.017
143	11.92	0.60	0.172	(0.460)	0.155	0.017
144	12.00	0.60	0.172	(0.458)	0.155	0.017
145	12.08	0.83	0.239	(0.456)	0.215	0.024
146	12.17	0.83	0.239	(0.454)	0.215	0.024
147	12.25	0.83	0.239	(0.451)	0.215	0.024
148	12.33	0.87	0.249	(0.449)	0.224	0.025
149	12.42	0.87	0.249	(0.447)	0.224	0.025
150	12.50	0.87	0.249	(0.445)	0.224	0.025
151	12.58	0.93	0.268	(0.442)	0.241	0.027
152	12.67	0.93	0.268	(0.440)	0.241	0.027
153	12.75	0.93	0.268	(0.438)	0.241	0.027
154	12.83	0.97	0.278	(0.436)	0.250	0.028
155	12.92	0.97	0.278	(0.433)	0.250	0.028
156	13.00	0.97	0.278	(0.431)	0.250	0.028
157	13.08	1.13	0.326	(0.429)	0.293	0.033
158	13.17	1.13	0.326	(0.427)	0.293	0.033
159	13.25	1.13	0.326	(0.425)	0.293	0.033
160	13.33	1.13	0.326	(0.423)	0.293	0.033
161	13.42	1.13	0.326	(0.420)	0.293	0.033
162	13.50	1.13	0.326	(0.418)	0.293	0.033
163	13.58	0.77	0.220	(0.416)	0.198	0.022
164	13.67	0.77	0.220	(0.414)	0.198	0.022
165	13.75	0.77	0.220	(0.412)	0.198	0.022
166	13.83	0.77	0.220	(0.410)	0.198	0.022
167	13.92	0.77	0.220	(0.408)	0.198	0.022
168	14.00	0.77	0.220	(0.406)	0.198	0.022
169	14.08	0.90	0.259	(0.404)	0.233	0.026
170	14.17	0.90	0.259	(0.402)	0.233	0.026
171	14.25	0.90	0.259	(0.399)	0.233	0.026
172	14.33	0.87	0.249	(0.397)	0.224	0.025
173	14.42	0.87	0.249	(0.395)	0.224	0.025
174	14.50	0.87	0.249	(0.393)	0.224	0.025
175	14.58	0.87	0.249	(0.391)	0.224	0.025
176	14.67	0.87	0.249	(0.389)	0.224	0.025
177	14.75	0.87	0.249	(0.387)	0.224	0.025
178	14.83	0.83	0.239	(0.385)	0.215	0.024
179	14.92	0.83	0.239	(0.383)	0.215	0.024
180	15.00	0.83	0.239	(0.381)	0.215	0.024
181	15.08	0.80	0.230	(0.379)	0.207	0.023
182	15.17	0.80	0.230	(0.378)	0.207	0.023
183	15.25	0.80	0.230	(0.376)	0.207	0.023
184	15.33	0.77	0.220	(0.374)	0.198	0.022
185	15.42	0.77	0.220	(0.372)	0.198	0.022
186	15.50	0.77	0.220	(0.370)	0.198	0.022
187	15.58	0.63	0.182	(0.368)	0.164	0.018
188	15.67	0.63	0.182	(0.366)	0.164	0.018
189	15.75	0.63	0.182	(0.364)	0.164	0.018
190	15.83	0.63	0.182	(0.362)	0.164	0.018
191	15.92	0.63	0.182	(0.360)	0.164	0.018
192	16.00	0.63	0.182	(0.359)	0.164	0.018

3828EX5245

193	16.08	0.13	0.038	(0.357)	0.034	0.004
194	16.17	0.13	0.038	(0.355)	0.034	0.004
195	16.25	0.13	0.038	(0.353)	0.034	0.004
196	16.33	0.13	0.038	(0.351)	0.034	0.004
197	16.42	0.13	0.038	(0.350)	0.034	0.004
198	16.50	0.13	0.038	(0.348)	0.034	0.004
199	16.58	0.10	0.029	(0.346)	0.026	0.003
200	16.67	0.10	0.029	(0.344)	0.026	0.003
201	16.75	0.10	0.029	(0.343)	0.026	0.003
202	16.83	0.10	0.029	(0.341)	0.026	0.003
203	16.92	0.10	0.029	(0.339)	0.026	0.003
204	17.00	0.10	0.029	(0.337)	0.026	0.003
205	17.08	0.17	0.048	(0.336)	0.043	0.005
206	17.17	0.17	0.048	(0.334)	0.043	0.005
207	17.25	0.17	0.048	(0.332)	0.043	0.005
208	17.33	0.17	0.048	(0.331)	0.043	0.005
209	17.42	0.17	0.048	(0.329)	0.043	0.005
210	17.50	0.17	0.048	(0.327)	0.043	0.005
211	17.58	0.17	0.048	(0.326)	0.043	0.005
212	17.67	0.17	0.048	(0.324)	0.043	0.005
213	17.75	0.17	0.048	(0.322)	0.043	0.005
214	17.83	0.13	0.038	(0.321)	0.034	0.004
215	17.92	0.13	0.038	(0.319)	0.034	0.004
216	18.00	0.13	0.038	(0.318)	0.034	0.004
217	18.08	0.13	0.038	(0.316)	0.034	0.004
218	18.17	0.13	0.038	(0.315)	0.034	0.004
219	18.25	0.13	0.038	(0.313)	0.034	0.004
220	18.33	0.13	0.038	(0.311)	0.034	0.004
221	18.42	0.13	0.038	(0.310)	0.034	0.004
222	18.50	0.13	0.038	(0.308)	0.034	0.004
223	18.58	0.10	0.029	(0.307)	0.026	0.003
224	18.67	0.10	0.029	(0.305)	0.026	0.003
225	18.75	0.10	0.029	(0.304)	0.026	0.003
226	18.83	0.07	0.019	(0.303)	0.017	0.002
227	18.92	0.07	0.019	(0.301)	0.017	0.002
228	19.00	0.07	0.019	(0.300)	0.017	0.002
229	19.08	0.10	0.029	(0.298)	0.026	0.003
230	19.17	0.10	0.029	(0.297)	0.026	0.003
231	19.25	0.10	0.029	(0.295)	0.026	0.003
232	19.33	0.13	0.038	(0.294)	0.034	0.004
233	19.42	0.13	0.038	(0.293)	0.034	0.004
234	19.50	0.13	0.038	(0.291)	0.034	0.004
235	19.58	0.10	0.029	(0.290)	0.026	0.003
236	19.67	0.10	0.029	(0.289)	0.026	0.003
237	19.75	0.10	0.029	(0.287)	0.026	0.003
238	19.83	0.07	0.019	(0.286)	0.017	0.002
239	19.92	0.07	0.019	(0.285)	0.017	0.002
240	20.00	0.07	0.019	(0.284)	0.017	0.002
241	20.08	0.10	0.029	(0.282)	0.026	0.003
242	20.17	0.10	0.029	(0.281)	0.026	0.003
243	20.25	0.10	0.029	(0.280)	0.026	0.003
244	20.33	0.10	0.029	(0.279)	0.026	0.003
245	20.42	0.10	0.029	(0.277)	0.026	0.003
246	20.50	0.10	0.029	(0.276)	0.026	0.003
247	20.58	0.10	0.029	(0.275)	0.026	0.003
248	20.67	0.10	0.029	(0.274)	0.026	0.003
249	20.75	0.10	0.029	(0.273)	0.026	0.003
250	20.83	0.07	0.019	(0.272)	0.017	0.002
251	20.92	0.07	0.019	(0.271)	0.017	0.002
252	21.00	0.07	0.019	(0.270)	0.017	0.002
253	21.08	0.10	0.029	(0.268)	0.026	0.003
254	21.17	0.10	0.029	(0.267)	0.026	0.003
255	21.25	0.10	0.029	(0.266)	0.026	0.003
256	21.33	0.07	0.019	(0.265)	0.017	0.002
257	21.42	0.07	0.019	(0.264)	0.017	0.002
258	21.50	0.07	0.019	(0.263)	0.017	0.002
259	21.58	0.10	0.029	(0.262)	0.026	0.003
260	21.67	0.10	0.029	(0.261)	0.026	0.003
261	21.75	0.10	0.029	(0.261)	0.026	0.003
262	21.83	0.07	0.019	(0.260)	0.017	0.002
263	21.92	0.07	0.019	(0.259)	0.017	0.002
264	22.00	0.07	0.019	(0.258)	0.017	0.002
265	22.08	0.10	0.029	(0.257)	0.026	0.003
266	22.17	0.10	0.029	(0.256)	0.026	0.003
267	22.25	0.10	0.029	(0.255)	0.026	0.003
268	22.33	0.07	0.019	(0.255)	0.017	0.002
269	22.42	0.07	0.019	(0.254)	0.017	0.002

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.019	(0.253)	0.017	0.002
271	22.58	0.07	0.019	(0.252)	0.017	0.002
272	22.67	0.07	0.019	(0.252)	0.017	0.002
273	22.75	0.07	0.019	(0.251)	0.017	0.002
274	22.83	0.07	0.019	(0.250)	0.017	0.002
275	22.92	0.07	0.019	(0.250)	0.017	0.002
276	23.00	0.07	0.019	(0.249)	0.017	0.002
277	23.08	0.07	0.019	(0.248)	0.017	0.002
278	23.17	0.07	0.019	(0.248)	0.017	0.002
279	23.25	0.07	0.019	(0.247)	0.017	0.002
280	23.33	0.07	0.019	(0.247)	0.017	0.002
281	23.42	0.07	0.019	(0.246)	0.017	0.002
282	23.50	0.07	0.019	(0.246)	0.017	0.002
283	23.58	0.07	0.019	(0.246)	0.017	0.002
284	23.67	0.07	0.019	(0.245)	0.017	0.002
285	23.75	0.07	0.019	(0.245)	0.017	0.002
286	23.83	0.07	0.019	(0.245)	0.017	0.002
287	23.92	0.07	0.019	(0.244)	0.017	0.002
288	24.00	0.07	0.019	(0.244)	0.017	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 2.9

Flood volume = Effective rainfall 0.24(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 1.3(Ac.Ft)
Total soil loss = 2.15(In)
Total soil loss = 12.047(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 58306.6 Cubic Feet
Total soil loss = 524759.2 Cubic Feet

Peak flow rate of this hydrograph = 2.152(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0009	0.08	Q				
0+20	0.0016	0.10	Q				
0+25	0.0025	0.13	Q				
0+30	0.0036	0.15	Q				
0+35	0.0047	0.17	Q				
0+40	0.0059	0.17	Q				
0+45	0.0071	0.18	Q				
0+50	0.0084	0.19	Q				
0+55	0.0098	0.21	Q				
1+ 0	0.0114	0.23	Q				
1+ 5	0.0130	0.23	Q				
1+10	0.0146	0.22	Q				
1+15	0.0160	0.21	Q				
1+20	0.0174	0.20	Q				
1+25	0.0188	0.20	Q				
1+30	0.0201	0.20	Q				
1+35	0.0215	0.20	Q				
1+40	0.0229	0.20	Q				
1+45	0.0242	0.20	Q				
1+50	0.0256	0.20	Q				
1+55	0.0271	0.22	Q				
2+ 0	0.0287	0.24	Q				
2+ 5	0.0304	0.24	Q				
2+10	0.0321	0.25	Q				
2+15	0.0338	0.25	|Q				
2+20	0.0356	0.25	|Q				
2+25	0.0373	0.25	|Q				
2+30	0.0391	0.26	|Q				
2+35	0.0409	0.26	|Q				
2+40	0.0428	0.28	|Q				
2+45	0.0449	0.30	|Q				
2+50	0.0470	0.31	|Q				
2+55	0.0491	0.31	|Q				
3+ 0	0.0513	0.31	|Q				
3+ 5	0.0535	0.32	|Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.0557	0.32	Q				
3+15	0.0579	0.32	Q				
3+20	0.0601	0.32	Q				
3+25	0.0623	0.32	Q				
3+30	0.0645	0.32	Q				
3+35	0.0668	0.32	Q				
3+40	0.0690	0.32	QV				
3+45	0.0712	0.32	QV				
3+50	0.0735	0.33	QV				
3+55	0.0759	0.35	QV				
4+ 0	0.0784	0.36	QV				
4+ 5	0.0809	0.37	QV				
4+10	0.0835	0.38	QV				
4+15	0.0862	0.38	QV				
4+20	0.0888	0.39	QV				
4+25	0.0916	0.41	QV				
4+30	0.0945	0.43	QV				
4+35	0.0975	0.43	QV				
4+40	0.1006	0.44	Q V				
4+45	0.1036	0.44	Q V				
4+50	0.1067	0.45	Q V				
4+55	0.1100	0.47	Q V				
5+ 0	0.1133	0.49	Q V				
5+ 5	0.1167	0.49	Q V				
5+10	0.1199	0.46	Q V				
5+15	0.1228	0.43	Q V				
5+20	0.1257	0.42	Q V				
5+25	0.1286	0.43	Q V				
5+30	0.1317	0.44	Q V				
5+35	0.1348	0.45	Q V				
5+40	0.1381	0.47	Q V				
5+45	0.1415	0.49	Q V				
5+50	0.1449	0.50	Q V				
5+55	0.1484	0.51	Q V				
6+ 0	0.1519	0.51	Q V				
6+ 5	0.1554	0.52	Q V				
6+10	0.1591	0.53	Q V				
6+15	0.1629	0.55	Q V				
6+20	0.1668	0.56	Q V				
6+25	0.1707	0.57	Q V				
6+30	0.1747	0.57	Q V				
6+35	0.1787	0.58	Q V				
6+40	0.1828	0.60	Q V				
6+45	0.1871	0.62	Q V				
6+50	0.1914	0.63	Q V				
6+55	0.1958	0.63	Q V				
7+ 0	0.2002	0.64	Q V				
7+ 5	0.2046	0.64	Q V				
7+10	0.2090	0.64	Q V				
7+15	0.2134	0.64	Q V				
7+20	0.2179	0.65	Q V				
7+25	0.2225	0.67	Q V				
7+30	0.2272	0.69	Q V				
7+35	0.2321	0.70	Q V				
7+40	0.2370	0.72	Q V				
7+45	0.2422	0.74	Q V				
7+50	0.2474	0.76	Q V				
7+55	0.2528	0.78	Q V				
8+ 0	0.2583	0.81	Q V				
8+ 5	0.2640	0.83	Q V				
8+10	0.2700	0.87	Q V				
8+15	0.2763	0.91	Q V				
8+20	0.2827	0.93	Q V				
8+25	0.2891	0.94	Q V				
8+30	0.2957	0.95	Q V				
8+35	0.3023	0.96	Q V				
8+40	0.3090	0.98	Q V				
8+45	0.3160	1.00	Q V				
8+50	0.3230	1.02	Q V				
8+55	0.3302	1.04	Q V				
9+ 0	0.3375	1.07	Q V				
9+ 5	0.3450	1.09	Q V				
9+10	0.3527	1.13	Q V				
9+15	0.3608	1.17	Q V				
9+20	0.3690	1.19	Q V				
9+25	0.3774	1.22	Q V				
9+30	0.3860	1.25	Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX5245

9+35	0.3948	1.27	Q	V			
9+40	0.4037	1.29	Q	V			
9+45	0.4128	1.32	Q	V			
9+50	0.4220	1.34	Q	V			
9+55	0.4313	1.36	Q	V			
10+ 0	0.4409	1.39	Q	V			
10+ 5	0.4503	1.37	Q	V			
10+10	0.4589	1.25	Q	V			
10+15	0.4666	1.12	Q	V			
10+20	0.4740	1.07	Q	V			
10+25	0.4812	1.05	Q	V			
10+30	0.4883	1.03	Q	V			
10+35	0.4954	1.04	Q	V			
10+40	0.5031	1.12	Q	V			
10+45	0.5114	1.20	Q	V			
10+50	0.5199	1.23	Q	V			
10+55	0.5285	1.25	Q	V			
11+ 0	0.5372	1.26	Q	V			
11+ 5	0.5459	1.27	Q	V			
11+10	0.5546	1.25	Q	V			
11+15	0.5631	1.24	Q	V			
11+20	0.5716	1.23	Q	V			
11+25	0.5801	1.23	Q	V			
11+30	0.5885	1.23	Q	V			
11+35	0.5970	1.22	Q	V			
11+40	0.6052	1.19	Q	V			
11+45	0.6131	1.15	Q	V			
11+50	0.6209	1.14	Q	V			
11+55	0.6289	1.15	Q	V			
12+ 0	0.6369	1.16	Q	V			
12+ 5	0.6451	1.19	Q	V			
12+10	0.6542	1.32	Q	V			
12+15	0.6642	1.45	Q	V			
12+20	0.6746	1.51	Q	V			
12+25	0.6853	1.56	Q	V			
12+30	0.6963	1.60	Q	V			
12+35	0.7076	1.63	Q	V			
12+40	0.7192	1.68	Q	V			
12+45	0.7311	1.73	Q	V			
12+50	0.7432	1.76	Q	V			
12+55	0.7555	1.79	Q	V			
13+ 0	0.7681	1.82	Q	V			
13+ 5	0.7809	1.86	Q	V			
13+10	0.7944	1.96	Q	V			
13+15	0.8086	2.06	Q	V			
13+20	0.8232	2.11	Q	V			
13+25	0.8379	2.13	Q	V			
13+30	0.8527	2.15	Q	V			
13+35	0.8673	2.12	Q	V			
13+40	0.8806	1.93	Q	V			
13+45	0.8925	1.73	Q	V			
13+50	0.9039	1.65	Q	V			
13+55	0.9149	1.61	Q	V			
14+ 0	0.9258	1.58	Q	V			
14+ 5	0.9366	1.57	Q	V			
14+10	0.9479	1.63	Q	V			
14+15	0.9595	1.69	Q	V			
14+20	0.9713	1.71	Q	V			
14+25	0.9831	1.70	Q	V			
14+30	0.9947	1.69	Q	V			
14+35	1.0063	1.68	Q	V			
14+40	1.0179	1.68	Q	V			
14+45	1.0295	1.68	Q	V			
14+50	1.0410	1.68	Q	V			
14+55	1.0524	1.66	Q	V			
15+ 0	1.0637	1.64	Q	V			
15+ 5	1.0750	1.63	Q	V			
15+10	1.0860	1.61	Q	V			
15+15	1.0970	1.59	Q	V			
15+20	1.1078	1.57	Q	V			
15+25	1.1185	1.55	Q	V			
15+30	1.1290	1.53	Q	V			
15+35	1.1393	1.50	Q	V			
15+40	1.1491	1.42	Q	V			
15+45	1.1583	1.34	Q	V			
15+50	1.1673	1.31	Q	V			
15+55	1.1762	1.29	Q	V			

3828EX5245

16+ 0	1.1849	1.27	| Q |	|	|	| V |
16+ 5	1.1932	1.20	| Q |	|	|	| V |
16+10	1.1995	0.92	| Q |	|	|	| V |
16+15	1.2038	0.63	| Q |	|	|	| V |
16+20	1.2074	0.51	| Q |	|	|	| V |
16+25	1.2104	0.44	|Q |	|	|	| V |
16+30	1.2131	0.40	|Q |	|	|	| V |
16+35	1.2156	0.36	|Q |	|	|	| V |
16+40	1.2178	0.31	|Q |	|	|	| V |
16+45	1.2197	0.28	|Q |	|	|	| V |
16+50	1.2214	0.25	|Q |	|	|	| V |
16+55	1.2230	0.24	Q |	|	|	| V |
17+ 0	1.2246	0.22	Q |	|	|	| V |
17+ 5	1.2261	0.22	Q |	|	|	| V |
17+10	1.2279	0.25	|Q |	|	|	| V |
17+15	1.2298	0.28	|Q |	|	|	| V |
17+20	1.2318	0.29	|Q |	|	|	| V |
17+25	1.2339	0.30	|Q |	|	|	| V |
17+30	1.2360	0.31	|Q |	|	|	| V |
17+35	1.2382	0.31	|Q |	|	|	| V |
17+40	1.2404	0.31	|Q |	|	|	| V |
17+45	1.2425	0.32	|Q |	|	|	| V |
17+50	1.2447	0.31	|Q |	|	|	| V |
17+55	1.2468	0.30	|Q |	|	|	| V |
18+ 0	1.2487	0.28	|Q |	|	|	| V |
18+ 5	1.2506	0.27	|Q |	|	|	| V |
18+10	1.2524	0.27	|Q |	|	|	| V |
18+15	1.2543	0.27	|Q |	|	|	| V |
18+20	1.2561	0.27	|Q |	|	|	| V |
18+25	1.2579	0.26	|Q |	|	|	| V |
18+30	1.2597	0.26	|Q |	|	|	| V |
18+35	1.2615	0.26	|Q |	|	|	| V |
18+40	1.2631	0.24	Q |	|	|	| V |
18+45	1.2647	0.22	Q |	|	|	| V |
18+50	1.2661	0.21	Q |	|	|	| V |
18+55	1.2673	0.18	Q |	|	|	| V |
19+ 0	1.2685	0.16	Q |	|	|	| V |
19+ 5	1.2695	0.16	Q |	|	|	| V |
19+10	1.2707	0.17	Q |	|	|	| V |
19+15	1.2720	0.18	Q |	|	|	| V |
19+20	1.2733	0.19	Q |	|	|	| V |
19+25	1.2747	0.21	Q |	|	|	| V |
19+30	1.2763	0.23	Q |	|	|	| V |
19+35	1.2780	0.24	Q |	|	|	| V |
19+40	1.2795	0.22	Q |	|	|	| V |
19+45	1.2809	0.21	Q |	|	|	| V |
19+50	1.2823	0.20	Q |	|	|	| V |
19+55	1.2835	0.18	Q |	|	|	| V |
20+ 0	1.2846	0.16	Q |	|	|	| V |
20+ 5	1.2856	0.15	Q |	|	|	| V |
20+10	1.2868	0.17	Q |	|	|	| V |
20+15	1.2880	0.18	Q |	|	|	| V |
20+20	1.2893	0.19	Q |	|	|	| V |
20+25	1.2906	0.19	Q |	|	|	| V |
20+30	1.2919	0.19	Q |	|	|	| V |
20+35	1.2933	0.19	Q |	|	|	| V |
20+40	1.2946	0.19	Q |	|	|	| V |
20+45	1.2959	0.19	Q |	|	|	| V |
20+50	1.2972	0.19	Q |	|	|	| V |
20+55	1.2984	0.17	Q |	|	|	| V |
21+ 0	1.2994	0.15	Q |	|	|	| V |
21+ 5	1.3005	0.15	Q |	|	|	| V |
21+10	1.3016	0.16	Q |	|	|	| V |
21+15	1.3028	0.18	Q |	|	|	| V |
21+20	1.3041	0.18	Q |	|	|	| V |
21+25	1.3052	0.17	Q |	|	|	| V|
21+30	1.3062	0.15	Q |	|	|	| V|
21+35	1.3072	0.15	Q |	|	|	| V|
21+40	1.3083	0.16	Q |	|	|	| V|
21+45	1.3095	0.18	Q |	|	|	| V|
21+50	1.3108	0.18	Q |	|	|	| V|
21+55	1.3119	0.16	Q |	|	|	| V|
22+ 0	1.3129	0.15	Q |	|	|	| V|
22+ 5	1.3139	0.15	Q |	|	|	| V|
22+10	1.3150	0.16	Q |	|	|	| V|
22+15	1.3162	0.18	Q |	|	|	| V|
22+20	1.3175	0.18	Q |	|	|	| V|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828EX5245
   22+25       1.3186      0.16  Q          |          |          |         V|
   22+30       1.3196      0.15  Q          |          |          |         V|
   22+35       1.3206      0.14  Q          |          |          |         V|
   22+40       1.3215      0.14  Q          |          |          |         V|
   22+45       1.3225      0.14  Q          |          |          |         V|
   22+50       1.3234      0.13  Q          |          |          |         V|
   22+55       1.3243      0.13  Q          |          |          |         V|
   23+ 0       1.3252      0.13  Q          |          |          |         V|
   23+ 5       1.3261      0.13  Q          |          |          |         V|
   23+10       1.3270      0.13  Q          |          |          |         V|
   23+15       1.3279      0.13  Q          |          |          |         V|
   23+20       1.3288      0.13  Q          |          |          |         V|
   23+25       1.3297      0.13  Q          |          |          |         V|
   23+30       1.3306      0.13  Q          |          |          |         V|
   23+35       1.3315      0.13  Q          |          |          |         V|
   23+40       1.3324      0.13  Q          |          |          |         V|
   23+45       1.3333      0.13  Q          |          |          |         V|
   23+50       1.3342      0.13  Q          |          |          |         V|
   23+55       1.3351      0.13  Q          |          |          |         V|
   24+ 0       1.3360      0.13  Q          |          |          |         V|
   24+ 5       1.3368      0.12  Q          |          |          |         V|
   24+10       1.3374      0.08  Q          |          |          |         V|
   24+15       1.3377      0.05  Q          |          |          |         V|
   24+20       1.3379      0.03  Q          |          |          |         V|
   24+25       1.3381      0.02  Q          |          |          |         V|
   24+30       1.3382      0.02  Q          |          |          |         V|
   24+35       1.3383      0.01  Q          |          |          |         V|
   24+40       1.3384      0.01  Q          |          |          |         V|
   24+45       1.3384      0.01  Q          |          |          |         V|
   24+50       1.3385      0.01  Q          |          |          |         V|
   24+55       1.3385      0.00  Q          |          |          |         V|
   25+ 0       1.3385      0.00  Q          |          |          |         V|
   25+ 5       1.3385      0.00  Q          |          |          |         V|
   25+10       1.3385      0.00  Q          |          |          |         V|
   25+15       1.3385      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	0.291	(0.357)	0.106
2	0.17	4.30	0.406	0.291	(0.366)	0.115
3	0.25	5.00	0.473	0.291	(0.425)	0.181
4	0.33	5.00	0.473	0.291	(0.425)	0.181
5	0.42	5.80	0.548	0.291	(0.493)	0.257
6	0.50	6.50	0.614	0.291	(0.553)	0.323
7	0.58	7.40	0.699	0.291	(0.629)	0.408
8	0.67	8.60	0.813	0.291	(0.731)	0.522
9	0.75	12.30	1.162	0.291	(1.046)	0.871
10	0.83	29.10	2.750	0.291	(2.475)	2.459
11	0.92	6.80	0.643	0.291	(0.578)	0.351
12	1.00	5.00	0.473	0.291	(0.425)	0.181
		(Loss Rate Not Used)				
Sum =		100.0		Sum =		6.0

Flood volume = Effective rainfall 0.50(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.8(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.628(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 120886.9 Cubic Feet
Total soil loss = 70928.5 Cubic Feet

Peak flow rate of this hydrograph = 73.530(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0032	0.47	Q				
0+10	0.0206	2.52	VQ				
0+15	0.0553	5.04	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10110

0+20	0.1059	7.35	V Q
0+25	0.1714	9.51	V Q
0+30	0.2551	12.16	V Q
0+35	0.3640	15.81	V Q
0+40	0.5033	20.23	V Q
0+45	0.6876	26.76	V Q
0+50	0.9915	44.12	V Q
0+55	1.4979	73.53	V Q
1+ 0	1.9625	67.47	V Q
1+ 5	2.2257	38.22	Q V
1+10	2.3837	22.93	Q V
1+15	2.4858	14.83	Q V
1+20	2.5584	10.55	Q V
1+25	2.6127	7.87	Q V
1+30	2.6536	5.94	Q V
1+35	2.6866	4.80	Q V
1+40	2.7122	3.72	Q V
1+45	2.7321	2.89	Q V
1+50	2.7471	2.19	Q V
1+55	2.7585	1.64	Q V
2+ 0	2.7676	1.33	Q V
2+ 5	2.7737	0.88	Q V
2+10	2.7748	0.16	Q V
2+15	2.7752	0.05	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10310

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.291)	0.173	0.019
2	0.17	1.30	0.193	(0.291)	0.173	0.019
3	0.25	1.10	0.163	(0.291)	0.147	0.016
4	0.33	1.50	0.222	(0.291)	0.200	0.022
5	0.42	1.50	0.222	(0.291)	0.200	0.022
6	0.50	1.80	0.267	(0.291)	0.240	0.027
7	0.58	1.50	0.222	(0.291)	0.200	0.022
8	0.67	1.80	0.267	(0.291)	0.240	0.027
9	0.75	1.80	0.267	(0.291)	0.240	0.027
10	0.83	1.50	0.222	(0.291)	0.200	0.022
11	0.92	1.60	0.237	(0.291)	0.214	0.024
12	1.00	1.80	0.267	(0.291)	0.240	0.027
13	1.08	2.20	0.326	0.291	(0.294)	0.035
14	1.17	2.20	0.326	0.291	(0.294)	0.035
15	1.25	2.20	0.326	0.291	(0.294)	0.035
16	1.33	2.00	0.297	(0.291)	0.267	0.030
17	1.42	2.60	0.386	0.291	(0.347)	0.094
18	1.50	2.70	0.400	0.291	(0.360)	0.109
19	1.58	2.40	0.356	0.291	(0.320)	0.065
20	1.67	2.70	0.400	0.291	(0.360)	0.109
21	1.75	3.30	0.489	0.291	(0.440)	0.198
22	1.83	3.10	0.460	0.291	(0.414)	0.168
23	1.92	2.90	0.430	0.291	(0.387)	0.139
24	2.00	3.00	0.445	0.291	(0.400)	0.154
25	2.08	3.10	0.460	0.291	(0.414)	0.168
26	2.17	4.20	0.623	0.291	(0.561)	0.332
27	2.25	5.00	0.741	0.291	(0.667)	0.450
28	2.33	3.50	0.519	0.291	(0.467)	0.228
29	2.42	6.80	1.008	0.291	(0.908)	0.717
30	2.50	7.30	1.082	0.291	(0.974)	0.791
31	2.58	8.20	1.216	0.291	(1.094)	0.925
32	2.67	5.90	0.875	0.291	(0.787)	0.584
33	2.75	2.00	0.297	(0.291)	0.267	0.030
34	2.83	1.80	0.267	(0.291)	0.240	0.027
35	2.92	1.80	0.267	(0.291)	0.240	0.027
36	3.00	0.60	0.089	(0.291)	0.080	0.009
		(Loss Rate Not Used)				
Sum =	100.0				Sum =	5.7

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10310

Flood volume = Effective rainfall 0.48(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.7(Ac.Ft)
Total soil loss = 0.76(In)
Total soil loss = 4.239(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 116359.0 Cubic Feet
Total soil loss = 184631.4 Cubic Feet

Peak flow rate of this hydrograph = 45.530(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0006	0.09	Q				
0+10	0.0037	0.45	Q				
0+15	0.0093	0.81	Q				
0+20	0.0158	0.94	Q				
0+25	0.0232	1.08	Q				
0+30	0.0318	1.25	VQ				
0+35	0.0414	1.39	VQ				
0+40	0.0515	1.47	VQ				
0+45	0.0621	1.54	VQ				
0+50	0.0732	1.61	|Q				
0+55	0.0841	1.59	|Q				
1+ 0	0.0950	1.58	|Q				
1+ 5	0.1066	1.69	|Q				
1+10	0.1198	1.91	|Q				
1+15	0.1343	2.11	|QV				
1+20	0.1492	2.17	|QV				
1+25	0.1658	2.40	|QV				
1+30	0.1908	3.63	| Q				
1+35	0.2248	4.94	| Q				
1+40	0.2600	5.11	| VQ				
1+45	0.3006	5.90	| Q				
1+50	0.3571	8.21	| VQ				
1+55	0.4232	9.59	| VQ				
2+ 0	0.4883	9.46	| Q				
2+ 5	0.5539	9.53	| QV				
2+10	0.6285	10.83	| QV|				
2+15	0.7313	14.93	| VQ				
2+20	0.8662	19.58	| V Q				
2+25	1.0130	21.32	| V Q				
2+30	1.2092	28.48	| V | Q				
2+35	1.4794	39.23	| V | Q				
2+40	1.7930	45.53	| V | Q				
2+45	2.0811	41.84	| V Q				
2+50	2.2712	27.60	| Q | V				
2+55	2.3809	15.93	| Q | V				
3+ 0	2.4574	11.11	| Q | V				
3+ 5	2.5135	8.15	| Q | V				
3+10	2.5544	5.95	| Q | V				
3+15	2.5850	4.43	| Q | V				
3+20	2.6087	3.44	| Q | V|				
3+25	2.6274	2.71	| Q | V|				
3+30	2.6415	2.04	|Q | V|				
3+35	2.6520	1.53	|Q | V|				
3+40	2.6602	1.18	Q | V|				
3+45	2.6658	0.83	Q | V|				
3+50	2.6694	0.51	Q | V|				
3+55	2.6708	0.20	Q | V|				
4+ 0	2.6710	0.03	Q | V|				
4+ 5	2.6711	0.02	Q | V|				
4+10	2.6712	0.01	Q | V|				
4+15	2.6712	0.00	Q | V|				

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10610

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.291)	0.092	0.010
2	0.17	0.60	0.123	(0.291)	0.110	0.012
3	0.25	0.60	0.123	(0.291)	0.110	0.012
4	0.33	0.60	0.123	(0.291)	0.110	0.012
5	0.42	0.60	0.123	(0.291)	0.110	0.012
6	0.50	0.70	0.143	(0.291)	0.129	0.014
7	0.58	0.70	0.143	(0.291)	0.129	0.014
8	0.67	0.70	0.143	(0.291)	0.129	0.014
9	0.75	0.70	0.143	(0.291)	0.129	0.014
10	0.83	0.70	0.143	(0.291)	0.129	0.014
11	0.92	0.70	0.143	(0.291)	0.129	0.014
12	1.00	0.80	0.164	(0.291)	0.147	0.016
13	1.08	0.80	0.164	(0.291)	0.147	0.016
14	1.17	0.80	0.164	(0.291)	0.147	0.016
15	1.25	0.80	0.164	(0.291)	0.147	0.016
16	1.33	0.80	0.164	(0.291)	0.147	0.016
17	1.42	0.80	0.164	(0.291)	0.147	0.016
18	1.50	0.80	0.164	(0.291)	0.147	0.016
19	1.58	0.80	0.164	(0.291)	0.147	0.016
20	1.67	0.80	0.164	(0.291)	0.147	0.016
21	1.75	0.80	0.164	(0.291)	0.147	0.016
22	1.83	0.80	0.164	(0.291)	0.147	0.016
23	1.92	0.80	0.164	(0.291)	0.147	0.016
24	2.00	0.90	0.184	(0.291)	0.166	0.018
25	2.08	0.80	0.164	(0.291)	0.147	0.016
26	2.17	0.90	0.184	(0.291)	0.166	0.018
27	2.25	0.90	0.184	(0.291)	0.166	0.018
28	2.33	0.90	0.184	(0.291)	0.166	0.018
29	2.42	0.90	0.184	(0.291)	0.166	0.018
30	2.50	0.90	0.184	(0.291)	0.166	0.018
31	2.58	0.90	0.184	(0.291)	0.166	0.018
32	2.67	0.90	0.184	(0.291)	0.166	0.018
33	2.75	1.00	0.205	(0.291)	0.184	0.020
34	2.83	1.00	0.205	(0.291)	0.184	0.020
35	2.92	1.00	0.205	(0.291)	0.184	0.020
36	3.00	1.00	0.205	(0.291)	0.184	0.020
37	3.08	1.00	0.205	(0.291)	0.184	0.020
38	3.17	1.10	0.225	(0.291)	0.203	0.023

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.225	(0.291)	0.203	0.023	
40	3.33	1.10	0.225	(0.291)	0.203	0.023	
41	3.42	1.20	0.246	(0.291)	0.221	0.025	
42	3.50	1.30	0.266	(0.291)	0.239	0.027	
43	3.58	1.40	0.286	(0.291)	0.258	0.029	
44	3.67	1.40	0.286	(0.291)	0.258	0.029	
45	3.75	1.50	0.307	(0.291)	0.276	0.031	
46	3.83	1.50	0.307	(0.291)	0.276	0.031	
47	3.92	1.60	0.327	0.291	(0.295)	0.036	
48	4.00	1.60	0.327	0.291	(0.295)	0.036	
49	4.08	1.70	0.348	0.291	(0.313)	0.057	
50	4.17	1.80	0.368	0.291	(0.331)	0.077	
51	4.25	1.90	0.389	0.291	(0.350)	0.098	
52	4.33	2.00	0.409	0.291	(0.368)	0.118	
53	4.42	2.10	0.430	0.291	(0.387)	0.138	
54	4.50	2.10	0.430	0.291	(0.387)	0.138	
55	4.58	2.20	0.450	0.291	(0.405)	0.159	
56	4.67	2.30	0.471	0.291	(0.424)	0.179	
57	4.75	2.40	0.491	0.291	(0.442)	0.200	
58	4.83	2.40	0.491	0.291	(0.442)	0.200	
59	4.92	2.50	0.512	0.291	(0.460)	0.220	
60	5.00	2.60	0.532	0.291	(0.479)	0.241	
61	5.08	3.10	0.634	0.291	(0.571)	0.343	
62	5.17	3.60	0.737	0.291	(0.663)	0.445	
63	5.25	3.90	0.798	0.291	(0.718)	0.507	
64	5.33	4.20	0.859	0.291	(0.773)	0.568	
65	5.42	4.70	0.962	0.291	(0.865)	0.670	
66	5.50	5.60	1.146	0.291	(1.031)	0.855	
67	5.58	1.90	0.389	0.291	(0.350)	0.098	
68	5.67	0.90	0.184	(0.291)	0.166	0.018	
69	5.75	0.60	0.123	(0.291)	0.110	0.012	
70	5.83	0.50	0.102	(0.291)	0.092	0.010	
71	5.92	0.30	0.061	(0.291)	0.055	0.006	
72	6.00	0.20	0.041	(0.291)	0.037	0.004	

(Loss Rate Not Used)

Sum = 100.0 Sum = 6.3

Flood volume = Effective rainfall 0.52(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.9(Ac.Ft)
Total soil loss = 1.18(In)
Total soil loss = 6.608(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 127460.2 Cubic Feet
Total soil loss = 287833.6 Cubic Feet

Peak flow rate of this hydrograph = 40.075(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0003	0.05	Q				
0+10	0.0020	0.25	Q				
0+15	0.0054	0.49	Q				
0+20	0.0096	0.61	Q				
0+25	0.0142	0.67	Q				
0+30	0.0192	0.72	Q				
0+35	0.0246	0.79	Q				
0+40	0.0305	0.85	Q				
0+45	0.0365	0.88	Q				
0+50	0.0428	0.91	Q				
0+55	0.0491	0.92	Q				
1+ 0	0.0556	0.94	Q				
1+ 5	0.0625	0.99	Q				
1+10	0.0696	1.04	Q				
1+15	0.0770	1.06	QV				
1+20	0.0844	1.08	QV				
1+25	0.0919	1.09	QV				
1+30	0.0994	1.09	QV				
1+35	0.1069	1.10	QV				
1+40	0.1145	1.10	QV				
1+45	0.1221	1.10	QV				
1+50	0.1297	1.10	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10610

1+55	0.1373	1.10	QV
2+ 0	0.1450	1.11	QV
2+ 5	0.1528	1.15	Q V
2+10	0.1608	1.16	Q V
2+15	0.1689	1.17	Q V
2+20	0.1772	1.20	Q V
2+25	0.1856	1.22	Q V
2+30	0.1940	1.23	Q V
2+35	0.2025	1.23	Q V
2+40	0.2110	1.23	Q V
2+45	0.2196	1.25	Q V
2+50	0.2284	1.29	Q V
2+55	0.2376	1.33	Q V
3+ 0	0.2469	1.35	Q V
3+ 5	0.2562	1.36	Q V
3+10	0.2657	1.37	Q V
3+15	0.2754	1.42	Q V
3+20	0.2855	1.46	Q V
3+25	0.2957	1.49	Q V
3+30	0.3064	1.55	Q V
3+35	0.3177	1.64	Q V
3+40	0.3298	1.75	Q V
3+45	0.3423	1.82	Q V
3+50	0.3554	1.90	Q V
3+55	0.3691	1.99	Q V
4+ 0	0.3837	2.12	Q V
4+ 5	0.3998	2.34	Q V
4+10	0.4197	2.88	Q V
4+15	0.4458	3.79	Q V
4+20	0.4792	4.86	Q V
4+25	0.5207	6.02	Q V
4+30	0.5698	7.14	Q V
4+35	0.6249	8.00	Q V
4+40	0.6862	8.89	Q V
4+45	0.7553	10.04	Q V
4+50	0.8323	11.18	Q V
4+55	0.9155	12.07	Q V
5+ 0	1.0050	12.99	Q V
5+ 5	1.1050	14.52	Q V
5+10	1.2268	17.69	Q V
5+15	1.3804	22.30	QV
5+20	1.5653	26.84	Q
5+25	1.7798	31.15	Q
5+30	2.0314	36.53	V Q
5+35	2.3074	40.07	VQ
5+40	2.5187	30.68	Q V
5+45	2.6371	17.19	Q V
5+50	2.7125	10.96	Q V
5+55	2.7673	7.95	Q V
6+ 0	2.8084	5.96	Q V
6+ 5	2.8396	4.53	Q V
6+10	2.8632	3.43	Q V
6+15	2.8815	2.67	Q V
6+20	2.8956	2.04	Q V
6+25	2.9062	1.54	Q V
6+30	2.9139	1.13	Q V
6+35	2.9195	0.80	Q V
6+40	2.9234	0.56	Q V
6+45	2.9255	0.30	Q V
6+50	2.9258	0.05	Q V
6+55	2.9259	0.02	Q V
7+ 0	2.9260	0.01	Q V
7+ 5	2.9261	0.01	Q V
7+10	2.9261	0.00	Q V
7+15	2.9261	0.00	Q V

3828EX102410

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX102410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	76.0	0.291	0.000	0.291	1.000	0.291
					Sum (F) =	0.291

3828EX102410

Area averaged mean soil loss (F) (In/Hr) = 0.291
Minimum soil loss rate ((In/Hr)) = 0.146
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.516)	0.021	0.002
2	0.17	0.07	0.023	(0.514)	0.021	0.002
3	0.25	0.07	0.023	(0.512)	0.021	0.002
4	0.33	0.10	0.035	(0.510)	0.031	0.003
5	0.42	0.10	0.035	(0.508)	0.031	0.003
6	0.50	0.10	0.035	(0.506)	0.031	0.003
7	0.58	0.10	0.035	(0.504)	0.031	0.003
8	0.67	0.10	0.035	(0.502)	0.031	0.003
9	0.75	0.10	0.035	(0.500)	0.031	0.003
10	0.83	0.13	0.046	(0.498)	0.041	0.005
11	0.92	0.13	0.046	(0.496)	0.041	0.005
12	1.00	0.13	0.046	(0.494)	0.041	0.005
13	1.08	0.10	0.035	(0.493)	0.031	0.003
14	1.17	0.10	0.035	(0.491)	0.031	0.003
15	1.25	0.10	0.035	(0.489)	0.031	0.003
16	1.33	0.10	0.035	(0.487)	0.031	0.003
17	1.42	0.10	0.035	(0.485)	0.031	0.003
18	1.50	0.10	0.035	(0.483)	0.031	0.003
19	1.58	0.10	0.035	(0.481)	0.031	0.003
20	1.67	0.10	0.035	(0.479)	0.031	0.003
21	1.75	0.10	0.035	(0.477)	0.031	0.003
22	1.83	0.13	0.046	(0.475)	0.041	0.005
23	1.92	0.13	0.046	(0.473)	0.041	0.005
24	2.00	0.13	0.046	(0.471)	0.041	0.005
25	2.08	0.13	0.046	(0.469)	0.041	0.005
26	2.17	0.13	0.046	(0.467)	0.041	0.005
27	2.25	0.13	0.046	(0.466)	0.041	0.005
28	2.33	0.13	0.046	(0.464)	0.041	0.005
29	2.42	0.13	0.046	(0.462)	0.041	0.005
30	2.50	0.13	0.046	(0.460)	0.041	0.005
31	2.58	0.17	0.058	(0.458)	0.052	0.006
32	2.67	0.17	0.058	(0.456)	0.052	0.006
33	2.75	0.17	0.058	(0.454)	0.052	0.006
34	2.83	0.17	0.058	(0.452)	0.052	0.006
35	2.92	0.17	0.058	(0.451)	0.052	0.006
36	3.00	0.17	0.058	(0.449)	0.052	0.006
37	3.08	0.17	0.058	(0.447)	0.052	0.006
38	3.17	0.17	0.058	(0.445)	0.052	0.006

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX102410

39	3.25	0.17	0.058	(0.443)	0.052	0.006
40	3.33	0.17	0.058	(0.441)	0.052	0.006
41	3.42	0.17	0.058	(0.439)	0.052	0.006
42	3.50	0.17	0.058	(0.438)	0.052	0.006
43	3.58	0.17	0.058	(0.436)	0.052	0.006
44	3.67	0.17	0.058	(0.434)	0.052	0.006
45	3.75	0.17	0.058	(0.432)	0.052	0.006
46	3.83	0.20	0.069	(0.430)	0.062	0.007
47	3.92	0.20	0.069	(0.428)	0.062	0.007
48	4.00	0.20	0.069	(0.427)	0.062	0.007
49	4.08	0.20	0.069	(0.425)	0.062	0.007
50	4.17	0.20	0.069	(0.423)	0.062	0.007
51	4.25	0.20	0.069	(0.421)	0.062	0.007
52	4.33	0.23	0.081	(0.419)	0.073	0.008
53	4.42	0.23	0.081	(0.418)	0.073	0.008
54	4.50	0.23	0.081	(0.416)	0.073	0.008
55	4.58	0.23	0.081	(0.414)	0.073	0.008
56	4.67	0.23	0.081	(0.412)	0.073	0.008
57	4.75	0.23	0.081	(0.411)	0.073	0.008
58	4.83	0.27	0.092	(0.409)	0.083	0.009
59	4.92	0.27	0.092	(0.407)	0.083	0.009
60	5.00	0.27	0.092	(0.405)	0.083	0.009
61	5.08	0.20	0.069	(0.403)	0.062	0.007
62	5.17	0.20	0.069	(0.402)	0.062	0.007
63	5.25	0.20	0.069	(0.400)	0.062	0.007
64	5.33	0.23	0.081	(0.398)	0.073	0.008
65	5.42	0.23	0.081	(0.396)	0.073	0.008
66	5.50	0.23	0.081	(0.395)	0.073	0.008
67	5.58	0.27	0.092	(0.393)	0.083	0.009
68	5.67	0.27	0.092	(0.391)	0.083	0.009
69	5.75	0.27	0.092	(0.390)	0.083	0.009
70	5.83	0.27	0.092	(0.388)	0.083	0.009
71	5.92	0.27	0.092	(0.386)	0.083	0.009
72	6.00	0.27	0.092	(0.384)	0.083	0.009
73	6.08	0.30	0.104	(0.383)	0.093	0.010
74	6.17	0.30	0.104	(0.381)	0.093	0.010
75	6.25	0.30	0.104	(0.379)	0.093	0.010
76	6.33	0.30	0.104	(0.378)	0.093	0.010
77	6.42	0.30	0.104	(0.376)	0.093	0.010
78	6.50	0.30	0.104	(0.374)	0.093	0.010
79	6.58	0.33	0.115	(0.373)	0.104	0.012
80	6.67	0.33	0.115	(0.371)	0.104	0.012
81	6.75	0.33	0.115	(0.369)	0.104	0.012
82	6.83	0.33	0.115	(0.368)	0.104	0.012
83	6.92	0.33	0.115	(0.366)	0.104	0.012
84	7.00	0.33	0.115	(0.364)	0.104	0.012
85	7.08	0.33	0.115	(0.363)	0.104	0.012
86	7.17	0.33	0.115	(0.361)	0.104	0.012
87	7.25	0.33	0.115	(0.359)	0.104	0.012
88	7.33	0.37	0.127	(0.358)	0.114	0.013
89	7.42	0.37	0.127	(0.356)	0.114	0.013
90	7.50	0.37	0.127	(0.354)	0.114	0.013
91	7.58	0.40	0.138	(0.353)	0.124	0.014
92	7.67	0.40	0.138	(0.351)	0.124	0.014
93	7.75	0.40	0.138	(0.349)	0.124	0.014
94	7.83	0.43	0.150	(0.348)	0.135	0.015
95	7.92	0.43	0.150	(0.346)	0.135	0.015
96	8.00	0.43	0.150	(0.345)	0.135	0.015
97	8.08	0.50	0.173	(0.343)	0.156	0.017
98	8.17	0.50	0.173	(0.341)	0.156	0.017
99	8.25	0.50	0.173	(0.340)	0.156	0.017
100	8.33	0.50	0.173	(0.338)	0.156	0.017
101	8.42	0.50	0.173	(0.337)	0.156	0.017
102	8.50	0.50	0.173	(0.335)	0.156	0.017
103	8.58	0.53	0.184	(0.334)	0.166	0.018
104	8.67	0.53	0.184	(0.332)	0.166	0.018
105	8.75	0.53	0.184	(0.330)	0.166	0.018
106	8.83	0.57	0.196	(0.329)	0.176	0.020
107	8.92	0.57	0.196	(0.327)	0.176	0.020
108	9.00	0.57	0.196	(0.326)	0.176	0.020
109	9.08	0.63	0.219	(0.324)	0.197	0.022
110	9.17	0.63	0.219	(0.323)	0.197	0.022
111	9.25	0.63	0.219	(0.321)	0.197	0.022
112	9.33	0.67	0.230	(0.320)	0.207	0.023
113	9.42	0.67	0.230	(0.318)	0.207	0.023
114	9.50	0.67	0.230	(0.317)	0.207	0.023
115	9.58	0.70	0.242	(0.315)	0.218	0.024

116	9.67	0.70	0.242	(0.314)	0.218	0.024
117	9.75	0.70	0.242	(0.312)	0.218	0.024
118	9.83	0.73	0.254	(0.310)	0.228	0.025
119	9.92	0.73	0.254	(0.309)	0.228	0.025
120	10.00	0.73	0.254	(0.308)	0.228	0.025
121	10.08	0.50	0.173	(0.306)	0.156	0.017
122	10.17	0.50	0.173	(0.305)	0.156	0.017
123	10.25	0.50	0.173	(0.303)	0.156	0.017
124	10.33	0.50	0.173	(0.302)	0.156	0.017
125	10.42	0.50	0.173	(0.300)	0.156	0.017
126	10.50	0.50	0.173	(0.299)	0.156	0.017
127	10.58	0.67	0.230	(0.297)	0.207	0.023
128	10.67	0.67	0.230	(0.296)	0.207	0.023
129	10.75	0.67	0.230	(0.294)	0.207	0.023
130	10.83	0.67	0.230	(0.293)	0.207	0.023
131	10.92	0.67	0.230	(0.291)	0.207	0.023
132	11.00	0.67	0.230	(0.290)	0.207	0.023
133	11.08	0.63	0.219	(0.289)	0.197	0.022
134	11.17	0.63	0.219	(0.287)	0.197	0.022
135	11.25	0.63	0.219	(0.286)	0.197	0.022
136	11.33	0.63	0.219	(0.284)	0.197	0.022
137	11.42	0.63	0.219	(0.283)	0.197	0.022
138	11.50	0.63	0.219	(0.281)	0.197	0.022
139	11.58	0.57	0.196	(0.280)	0.176	0.020
140	11.67	0.57	0.196	(0.279)	0.176	0.020
141	11.75	0.57	0.196	(0.277)	0.176	0.020
142	11.83	0.60	0.207	(0.276)	0.187	0.021
143	11.92	0.60	0.207	(0.275)	0.187	0.021
144	12.00	0.60	0.207	(0.273)	0.187	0.021
145	12.08	0.83	0.288	(0.272)	0.259	0.029
146	12.17	0.83	0.288	(0.270)	0.259	0.029
147	12.25	0.83	0.288	(0.269)	0.259	0.029
148	12.33	0.87	0.300	0.268	(0.270)	0.032
149	12.42	0.87	0.300	0.266	(0.270)	0.033
150	12.50	0.87	0.300	0.265	(0.270)	0.035
151	12.58	0.93	0.323	0.264	(0.290)	0.059
152	12.67	0.93	0.323	0.262	(0.290)	0.060
153	12.75	0.93	0.323	0.261	(0.290)	0.062
154	12.83	0.97	0.334	0.260	(0.301)	0.074
155	12.92	0.97	0.334	0.258	(0.301)	0.076
156	13.00	0.97	0.334	0.257	(0.301)	0.077
157	13.08	1.13	0.392	0.256	(0.353)	0.136
158	13.17	1.13	0.392	0.255	(0.353)	0.137
159	13.25	1.13	0.392	0.253	(0.353)	0.139
160	13.33	1.13	0.392	0.252	(0.353)	0.140
161	13.42	1.13	0.392	0.251	(0.353)	0.141
162	13.50	1.13	0.392	0.249	(0.353)	0.142
163	13.58	0.77	0.265	(0.248)	0.239	0.027
164	13.67	0.77	0.265	(0.247)	0.239	0.027
165	13.75	0.77	0.265	(0.246)	0.239	0.027
166	13.83	0.77	0.265	(0.244)	0.239	0.027
167	13.92	0.77	0.265	(0.243)	0.239	0.027
168	14.00	0.77	0.265	(0.242)	0.239	0.027
169	14.08	0.90	0.311	0.241	(0.280)	0.070
170	14.17	0.90	0.311	0.239	(0.280)	0.072
171	14.25	0.90	0.311	0.238	(0.280)	0.073
172	14.33	0.87	0.300	0.237	(0.270)	0.063
173	14.42	0.87	0.300	0.236	(0.270)	0.064
174	14.50	0.87	0.300	0.235	(0.270)	0.065
175	14.58	0.87	0.300	0.233	(0.270)	0.066
176	14.67	0.87	0.300	0.232	(0.270)	0.067
177	14.75	0.87	0.300	0.231	(0.270)	0.069
178	14.83	0.83	0.288	0.230	(0.259)	0.058
179	14.92	0.83	0.288	0.229	(0.259)	0.059
180	15.00	0.83	0.288	0.227	(0.259)	0.061
181	15.08	0.80	0.277	0.226	(0.249)	0.050
182	15.17	0.80	0.277	0.225	(0.249)	0.051
183	15.25	0.80	0.277	0.224	(0.249)	0.053
184	15.33	0.77	0.265	0.223	(0.239)	0.042
185	15.42	0.77	0.265	0.222	(0.239)	0.043
186	15.50	0.77	0.265	0.221	(0.239)	0.045
187	15.58	0.63	0.219	(0.219)	0.197	0.022
188	15.67	0.63	0.219	(0.218)	0.197	0.022
189	15.75	0.63	0.219	(0.217)	0.197	0.022
190	15.83	0.63	0.219	(0.216)	0.197	0.022
191	15.92	0.63	0.219	(0.215)	0.197	0.022
192	16.00	0.63	0.219	(0.214)	0.197	0.022

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.046	(0.213)	0.041	0.005
194	16.17	0.13	0.046	(0.212)	0.041	0.005
195	16.25	0.13	0.046	(0.211)	0.041	0.005
196	16.33	0.13	0.046	(0.210)	0.041	0.005
197	16.42	0.13	0.046	(0.208)	0.041	0.005
198	16.50	0.13	0.046	(0.207)	0.041	0.005
199	16.58	0.10	0.035	(0.206)	0.031	0.003
200	16.67	0.10	0.035	(0.205)	0.031	0.003
201	16.75	0.10	0.035	(0.204)	0.031	0.003
202	16.83	0.10	0.035	(0.203)	0.031	0.003
203	16.92	0.10	0.035	(0.202)	0.031	0.003
204	17.00	0.10	0.035	(0.201)	0.031	0.003
205	17.08	0.17	0.058	(0.200)	0.052	0.006
206	17.17	0.17	0.058	(0.199)	0.052	0.006
207	17.25	0.17	0.058	(0.198)	0.052	0.006
208	17.33	0.17	0.058	(0.197)	0.052	0.006
209	17.42	0.17	0.058	(0.196)	0.052	0.006
210	17.50	0.17	0.058	(0.195)	0.052	0.006
211	17.58	0.17	0.058	(0.194)	0.052	0.006
212	17.67	0.17	0.058	(0.193)	0.052	0.006
213	17.75	0.17	0.058	(0.192)	0.052	0.006
214	17.83	0.13	0.046	(0.191)	0.041	0.005
215	17.92	0.13	0.046	(0.190)	0.041	0.005
216	18.00	0.13	0.046	(0.189)	0.041	0.005
217	18.08	0.13	0.046	(0.188)	0.041	0.005
218	18.17	0.13	0.046	(0.188)	0.041	0.005
219	18.25	0.13	0.046	(0.187)	0.041	0.005
220	18.33	0.13	0.046	(0.186)	0.041	0.005
221	18.42	0.13	0.046	(0.185)	0.041	0.005
222	18.50	0.13	0.046	(0.184)	0.041	0.005
223	18.58	0.10	0.035	(0.183)	0.031	0.003
224	18.67	0.10	0.035	(0.182)	0.031	0.003
225	18.75	0.10	0.035	(0.181)	0.031	0.003
226	18.83	0.07	0.023	(0.180)	0.021	0.002
227	18.92	0.07	0.023	(0.180)	0.021	0.002
228	19.00	0.07	0.023	(0.179)	0.021	0.002
229	19.08	0.10	0.035	(0.178)	0.031	0.003
230	19.17	0.10	0.035	(0.177)	0.031	0.003
231	19.25	0.10	0.035	(0.176)	0.031	0.003
232	19.33	0.13	0.046	(0.175)	0.041	0.005
233	19.42	0.13	0.046	(0.175)	0.041	0.005
234	19.50	0.13	0.046	(0.174)	0.041	0.005
235	19.58	0.10	0.035	(0.173)	0.031	0.003
236	19.67	0.10	0.035	(0.172)	0.031	0.003
237	19.75	0.10	0.035	(0.171)	0.031	0.003
238	19.83	0.07	0.023	(0.171)	0.021	0.002
239	19.92	0.07	0.023	(0.170)	0.021	0.002
240	20.00	0.07	0.023	(0.169)	0.021	0.002
241	20.08	0.10	0.035	(0.168)	0.031	0.003
242	20.17	0.10	0.035	(0.168)	0.031	0.003
243	20.25	0.10	0.035	(0.167)	0.031	0.003
244	20.33	0.10	0.035	(0.166)	0.031	0.003
245	20.42	0.10	0.035	(0.165)	0.031	0.003
246	20.50	0.10	0.035	(0.165)	0.031	0.003
247	20.58	0.10	0.035	(0.164)	0.031	0.003
248	20.67	0.10	0.035	(0.163)	0.031	0.003
249	20.75	0.10	0.035	(0.163)	0.031	0.003
250	20.83	0.07	0.023	(0.162)	0.021	0.002
251	20.92	0.07	0.023	(0.161)	0.021	0.002
252	21.00	0.07	0.023	(0.161)	0.021	0.002
253	21.08	0.10	0.035	(0.160)	0.031	0.003
254	21.17	0.10	0.035	(0.159)	0.031	0.003
255	21.25	0.10	0.035	(0.159)	0.031	0.003
256	21.33	0.07	0.023	(0.158)	0.021	0.002
257	21.42	0.07	0.023	(0.158)	0.021	0.002
258	21.50	0.07	0.023	(0.157)	0.021	0.002
259	21.58	0.10	0.035	(0.156)	0.031	0.003
260	21.67	0.10	0.035	(0.156)	0.031	0.003
261	21.75	0.10	0.035	(0.155)	0.031	0.003
262	21.83	0.07	0.023	(0.155)	0.021	0.002
263	21.92	0.07	0.023	(0.154)	0.021	0.002
264	22.00	0.07	0.023	(0.154)	0.021	0.002
265	22.08	0.10	0.035	(0.153)	0.031	0.003
266	22.17	0.10	0.035	(0.153)	0.031	0.003
267	22.25	0.10	0.035	(0.152)	0.031	0.003
268	22.33	0.07	0.023	(0.152)	0.021	0.002
269	22.42	0.07	0.023	(0.151)	0.021	0.002

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.023	(0.151)	0.021	0.002
271	22.58	0.07	0.023	(0.150)	0.021	0.002
272	22.67	0.07	0.023	(0.150)	0.021	0.002
273	22.75	0.07	0.023	(0.150)	0.021	0.002
274	22.83	0.07	0.023	(0.149)	0.021	0.002
275	22.92	0.07	0.023	(0.149)	0.021	0.002
276	23.00	0.07	0.023	(0.148)	0.021	0.002
277	23.08	0.07	0.023	(0.148)	0.021	0.002
278	23.17	0.07	0.023	(0.148)	0.021	0.002
279	23.25	0.07	0.023	(0.147)	0.021	0.002
280	23.33	0.07	0.023	(0.147)	0.021	0.002
281	23.42	0.07	0.023	(0.147)	0.021	0.002
282	23.50	0.07	0.023	(0.147)	0.021	0.002
283	23.58	0.07	0.023	(0.146)	0.021	0.002
284	23.67	0.07	0.023	(0.146)	0.021	0.002
285	23.75	0.07	0.023	(0.146)	0.021	0.002
286	23.83	0.07	0.023	(0.146)	0.021	0.002
287	23.92	0.07	0.023	(0.146)	0.021	0.002
288	24.00	0.07	0.023	(0.146)	0.021	0.002

(Loss Rate Not Used)

Sum = 100.0 Sum = 4.8

Flood volume = Effective rainfall 0.40(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.2(Ac.Ft)
Total soil loss = 2.48(In)
Total soil loss = 13.860(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 97997.1 Cubic Feet
Total soil loss = 603735.4 Cubic Feet

Peak flow rate of this hydrograph = 8.779(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.05	Q				
0+15	0.0011	0.10	Q				
0+20	0.0020	0.12	Q				
0+25	0.0030	0.15	Q				
0+30	0.0043	0.18	Q				
0+35	0.0057	0.20	Q				
0+40	0.0071	0.21	Q				
0+45	0.0086	0.21	Q				
0+50	0.0101	0.22	Q				
0+55	0.0118	0.25	VQ				
1+ 0	0.0137	0.28	VQ				
1+ 5	0.0157	0.28	VQ				
1+10	0.0175	0.27	VQ				
1+15	0.0192	0.25	Q				
1+20	0.0209	0.24	Q				
1+25	0.0226	0.24	Q				
1+30	0.0242	0.24	Q				
1+35	0.0259	0.24	Q				
1+40	0.0275	0.24	Q				
1+45	0.0291	0.24	Q				
1+50	0.0308	0.24	Q				
1+55	0.0326	0.26	VQ				
2+ 0	0.0346	0.28	VQ				
2+ 5	0.0366	0.29	VQ				
2+10	0.0387	0.30	VQ				
2+15	0.0407	0.30	VQ				
2+20	0.0428	0.30	VQ				
2+25	0.0449	0.31	VQ				
2+30	0.0470	0.31	VQ				
2+35	0.0492	0.31	VQ				
2+40	0.0515	0.34	VQ				
2+45	0.0540	0.36	VQ				
2+50	0.0565	0.37	|Q				
2+55	0.0591	0.38	|Q				
3+ 0	0.0617	0.38	|Q				
3+ 5	0.0644	0.38	|Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.0670	0.38	Q				
3+15	0.0697	0.39	Q				
3+20	0.0723	0.39	Q				
3+25	0.0750	0.39	Q				
3+30	0.0777	0.39	Q				
3+35	0.0803	0.39	Q				
3+40	0.0830	0.39	Q				
3+45	0.0857	0.39	Q				
3+50	0.0884	0.39	Q				
3+55	0.0913	0.42	Q				
4+ 0	0.0943	0.44	Q				
4+ 5	0.0974	0.45	Q				
4+10	0.1005	0.45	Q				
4+15	0.1037	0.46	Q				
4+20	0.1069	0.47	Q				
4+25	0.1103	0.49	Q				
4+30	0.1138	0.51	Q				
4+35	0.1174	0.52	Q				
4+40	0.1210	0.53	Q				
4+45	0.1247	0.53	Q				
4+50	0.1284	0.54	Q				
4+55	0.1323	0.57	Q				
5+ 0	0.1364	0.59	Q				
5+ 5	0.1405	0.59	Q				
5+10	0.1443	0.55	Q				
5+15	0.1478	0.51	Q				
5+20	0.1513	0.50	Q				
5+25	0.1548	0.52	Q				
5+30	0.1585	0.53	Q				
5+35	0.1623	0.54	Q				
5+40	0.1662	0.57	Q				
5+45	0.1702	0.59	QV				
5+50	0.1744	0.60	QV				
5+55	0.1786	0.61	QV				
6+ 0	0.1828	0.61	QV				
6+ 5	0.1871	0.62	QV				
6+10	0.1915	0.64	QV				
6+15	0.1961	0.67	QV				
6+20	0.2008	0.68	QV				
6+25	0.2055	0.68	QV				
6+30	0.2102	0.69	QV				
6+35	0.2150	0.70	QV				
6+40	0.2200	0.72	QV				
6+45	0.2251	0.75	Q V				
6+50	0.2304	0.76	QV				
6+55	0.2356	0.76	QV				
7+ 0	0.2409	0.77	QV				
7+ 5	0.2462	0.77	QV				
7+10	0.2515	0.77	QV				
7+15	0.2569	0.77	QV				
7+20	0.2622	0.78	QV				
7+25	0.2678	0.80	QV				
7+30	0.2735	0.83	QV				
7+35	0.2793	0.84	QV				
7+40	0.2853	0.87	Q V				
7+45	0.2914	0.90	Q V				
7+50	0.2977	0.91	Q V				
7+55	0.3042	0.94	Q V				
8+ 0	0.3109	0.97	Q V				
8+ 5	0.3177	0.99	Q V				
8+10	0.3249	1.05	QV				
8+15	0.3325	1.10	QV				
8+20	0.3402	1.12	Q V				
8+25	0.3480	1.13	Q V				
8+30	0.3559	1.14	Q V				
8+35	0.3638	1.15	Q V				
8+40	0.3719	1.18	Q V				
8+45	0.3803	1.21	Q V				
8+50	0.3887	1.23	Q V				
8+55	0.3973	1.25	Q V				
9+ 0	0.4062	1.28	Q V				
9+ 5	0.4152	1.31	Q V				
9+10	0.4245	1.36	Q V				
9+15	0.4342	1.41	Q V				
9+20	0.4441	1.44	Q V				
9+25	0.4543	1.47	Q V				
9+30	0.4646	1.50	Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX102410

9+35	0.4751	1.52	Q V
9+40	0.4858	1.56	Q V
9+45	0.4968	1.59	Q V
9+50	0.5078	1.61	Q V
9+55	0.5191	1.64	Q V
10+ 0	0.5306	1.67	Q V
10+ 5	0.5420	1.65	Q V
10+10	0.5523	1.50	Q V
10+15	0.5616	1.35	Q V
10+20	0.5705	1.29	Q V
10+25	0.5792	1.26	Q V
10+30	0.5877	1.24	Q V
10+35	0.5963	1.25	Q V
10+40	0.6055	1.34	Q V
10+45	0.6155	1.45	Q V
10+50	0.6257	1.49	Q V
10+55	0.6361	1.51	Q V
11+ 0	0.6466	1.52	Q V
11+ 5	0.6570	1.52	Q V
11+10	0.6674	1.51	Q V
11+15	0.6777	1.49	Q V
11+20	0.6879	1.48	Q V
11+25	0.6981	1.48	Q V
11+30	0.7083	1.48	Q V
11+35	0.7185	1.47	Q V
11+40	0.7283	1.43	Q V
11+45	0.7379	1.39	Q V
11+50	0.7473	1.37	Q V
11+55	0.7568	1.38	Q V
12+ 0	0.7665	1.40	Q V
12+ 5	0.7764	1.44	Q V
12+10	0.7873	1.59	Q V
12+15	0.7994	1.75	Q V
12+20	0.8119	1.83	Q V
12+25	0.8252	1.93	Q V
12+30	0.8393	2.04	Q V
12+35	0.8548	2.25	Q V
12+40	0.8739	2.78	Q V
12+45	0.8967	3.32	Q V
12+50	0.9219	3.65	Q V
12+55	0.9499	4.07	Q
13+ 0	0.9806	4.45	Q
13+ 5	1.0146	4.95	VQ
13+10	1.0575	6.22	V Q
13+15	1.1090	7.49	V Q
13+20	1.1648	8.10	V Q
13+25	1.2232	8.48	V Q
13+30	1.2837	8.78	V Q
13+35	1.3422	8.50	V Q
13+40	1.3868	6.47	VQ
13+45	1.4167	4.35	Q V
13+50	1.4407	3.48	Q V
13+55	1.4616	3.03	Q V
14+ 0	1.4804	2.73	Q V
14+ 5	1.4990	2.70	Q V
14+10	1.5223	3.38	Q V
14+15	1.5508	4.14	Q V
14+20	1.5811	4.41	Q V
14+25	1.6111	4.35	Q V
14+30	1.6405	4.26	Q V
14+35	1.6700	4.28	Q V
14+40	1.6998	4.34	Q V
14+45	1.7301	4.39	Q V
14+50	1.7604	4.40	Q V
14+55	1.7898	4.28	Q V
15+ 0	1.8184	4.14	Q V
15+ 5	1.8465	4.09	Q V
15+10	1.8734	3.90	Q V
15+15	1.8991	3.73	Q V
15+20	1.9242	3.64	Q V
15+25	1.9478	3.43	Q V
15+30	1.9700	3.23	Q V
15+35	1.9911	3.07	Q V
15+40	2.0091	2.61	Q V
15+45	2.0238	2.14	Q V
15+50	2.0371	1.93	Q V
15+55	2.0496	1.81	Q V

3828EX102410

16+ 0	2.0614	1.73		Q		V	
16+ 5	2.0724	1.58		Q		V	
16+10	2.0807	1.21		Q		V	
16+15	2.0865	0.84		Q		V	
16+20	2.0911	0.67	Q			V	
16+25	2.0951	0.57	Q			V	
16+30	2.0986	0.50	Q			V	
16+35	2.1016	0.45	Q			V	
16+40	2.1043	0.39	Q			V	
16+45	2.1066	0.34	Q			V	
16+50	2.1087	0.30	Q			V	
16+55	2.1107	0.28	Q			V	
17+ 0	2.1125	0.27	Q			V	
17+ 5	2.1144	0.27	Q			V	
17+10	2.1165	0.30	Q			V	
17+15	2.1189	0.34	Q			V	
17+20	2.1213	0.35	Q			V	
17+25	2.1238	0.36	Q			V	
17+30	2.1264	0.37	Q			V	
17+35	2.1289	0.38	Q			V	
17+40	2.1316	0.38	Q			V	
17+45	2.1342	0.38	Q			V	
17+50	2.1368	0.38	Q			V	
17+55	2.1392	0.36	Q			V	
18+ 0	2.1416	0.34	Q			V	
18+ 5	2.1438	0.33	Q			V	
18+10	2.1461	0.32	Q			V	
18+15	2.1483	0.32	Q			V	
18+20	2.1505	0.32	Q			V	
18+25	2.1527	0.32	Q			V	
18+30	2.1549	0.32	Q			V	
18+35	2.1570	0.31	Q			V	
18+40	2.1590	0.29	Q			V	
18+45	2.1608	0.26	Q			V	
18+50	2.1625	0.25	Q			V	
18+55	2.1640	0.22	Q			V	
19+ 0	2.1654	0.20	Q			V	
19+ 5	2.1667	0.19	Q			V	
19+10	2.1681	0.20	Q			V	
19+15	2.1696	0.22	Q			V	
19+20	2.1712	0.23	Q			V	
19+25	2.1729	0.26	Q			V	
19+30	2.1749	0.28	Q			V	
19+35	2.1768	0.28	Q			V	
19+40	2.1787	0.27	Q			V	
19+45	2.1804	0.25	Q			V	
19+50	2.1820	0.24	Q			V	
19+55	2.1835	0.21	Q			V	
20+ 0	2.1848	0.19	Q			V	
20+ 5	2.1861	0.18	Q			V	
20+10	2.1874	0.20	Q			V	
20+15	2.1889	0.22	Q			V	
20+20	2.1905	0.22	Q			V	
20+25	2.1920	0.23	Q			V	
20+30	2.1936	0.23	Q			V	
20+35	2.1952	0.23	Q			V	
20+40	2.1968	0.23	Q			V	
20+45	2.1984	0.23	Q			V	
20+50	2.2000	0.23	Q			V	
20+55	2.2014	0.21	Q			V	
21+ 0	2.2026	0.18	Q			V	
21+ 5	2.2039	0.18	Q			V	
21+10	2.2052	0.20	Q			V	
21+15	2.2067	0.22	Q			V	
21+20	2.2082	0.22	Q			V	
21+25	2.2096	0.20	Q			V	
21+30	2.2108	0.18	Q			V	
21+35	2.2120	0.18	Q			V	
21+40	2.2133	0.19	Q			V	
21+45	2.2148	0.21	Q			V	
21+50	2.2163	0.22	Q			V	
21+55	2.2177	0.20	Q			V	
22+ 0	2.2189	0.18	Q			V	
22+ 5	2.2201	0.17	Q			V	
22+10	2.2214	0.19	Q			V	
22+15	2.2229	0.21	Q			V	
22+20	2.2243	0.22	Q			V	

3828EX102410

22+25	2.2257	0.20	Q	|	|	|	V|
22+30	2.2269	0.18	Q	|	|	|	V|
22+35	2.2281	0.17	Q	|	|	|	V|
22+40	2.2292	0.17	Q	|	|	|	V|
22+45	2.2304	0.16	Q	|	|	|	V|
22+50	2.2315	0.16	Q	|	|	|	V|
22+55	2.2326	0.16	Q	|	|	|	V|
23+ 0	2.2337	0.16	Q	|	|	|	V|
23+ 5	2.2348	0.16	Q	|	|	|	V|
23+10	2.2358	0.16	Q	|	|	|	V|
23+15	2.2369	0.16	Q	|	|	|	V|
23+20	2.2380	0.16	Q	|	|	|	V|
23+25	2.2391	0.16	Q	|	|	|	V|
23+30	2.2402	0.16	Q	|	|	|	V|
23+35	2.2412	0.16	Q	|	|	|	V|
23+40	2.2423	0.16	Q	|	|	|	V|
23+45	2.2434	0.16	Q	|	|	|	V|
23+50	2.2445	0.16	Q	|	|	|	V|
23+55	2.2455	0.16	Q	|	|	|	V|
24+ 0	2.2466	0.16	Q	|	|	|	V|
24+ 5	2.2476	0.15	Q	|	|	|	V|
24+10	2.2483	0.10	Q	|	|	|	V|
24+15	2.2487	0.06	Q	|	|	|	V|
24+20	2.2490	0.04	Q	|	|	|	V|
24+25	2.2492	0.03	Q	|	|	|	V|
24+30	2.2493	0.02	Q	|	|	|	V|
24+35	2.2494	0.02	Q	|	|	|	V|
24+40	2.2495	0.01	Q	|	|	|	V|
24+45	2.2496	0.01	Q	|	|	|	V|
24+50	2.2496	0.01	Q	|	|	|	V|
24+55	2.2496	0.00	Q	|	|	|	V|
25+ 0	2.2497	0.00	Q	|	|	|	V|
25+ 5	2.2497	0.00	Q	|	|	|	V|
25+10	2.2497	0.00	Q	|	|	|	V|
25+15	2.2497	0.00	Q	|	|	|	V|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1001100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1001100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.146	(0.544)	0.458
2	0.17	4.30	0.619	0.146	(0.557)	0.473
3	0.25	5.00	0.720	0.146	(0.648)	0.574
4	0.33	5.00	0.720	0.146	(0.648)	0.574
5	0.42	5.80	0.835	0.146	(0.751)	0.689
6	0.50	6.50	0.935	0.146	(0.842)	0.789
7	0.58	7.40	1.065	0.146	(0.958)	0.919
8	0.67	8.60	1.238	0.146	(1.114)	1.092
9	0.75	12.30	1.770	0.146	(1.593)	1.624
10	0.83	29.10	4.188	0.146	(3.769)	4.042
11	0.92	6.80	0.979	0.146	(0.881)	0.833
12	1.00	5.00	0.720	0.146	(0.648)	0.574
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	12.6

Flood volume = Effective rainfall 1.05(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.9(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.816(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 256557.9 Cubic Feet
Total soil loss = 35551.9 Cubic Feet

Peak flow rate of this hydrograph = 131.472(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0140	2.04	Q				
0+10	0.0885	10.81	V Q				
0+15	0.2289	20.39	|V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1001100

0+20	0.4105	26.36	V Q
0+25	0.6239	30.98	V Q
0+30	0.8714	35.94	V Q
0+35	1.1617	42.17	VQ
0+40	1.5020	49.40	QV
0+45	1.9131	59.70	QV
0+50	2.5084	86.44	Q
0+55	3.4139	131.47	V Q
1+ 0	4.2570	122.43	Q V
1+ 5	4.7854	76.71	Q V
1+10	5.1152	47.89	Q V
1+15	5.3212	29.91	Q V
1+20	5.4659	21.01	Q V
1+25	5.5734	15.61	Q V
1+30	5.6543	11.75	Q V
1+35	5.7187	9.35	Q V
1+40	5.7683	7.20	Q V
1+45	5.8068	5.58	Q V
1+50	5.8357	4.20	Q V
1+55	5.8573	3.14	Q V
2+ 0	5.8743	2.47	Q V
2+ 5	5.8856	1.64	Q V
2+10	5.8886	0.44	Q V
2+15	5.8898	0.16	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1003100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1003100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max		Low	Effective (In/Hr)
1	0.08	1.30	0.290	0.146	(	0.261)	0.144
2	0.17	1.30	0.290	0.146	(	0.261)	0.144
3	0.25	1.10	0.245	0.146	(	0.221)	0.099
4	0.33	1.50	0.335	0.146	(	0.301)	0.189
5	0.42	1.50	0.335	0.146	(	0.301)	0.189
6	0.50	1.80	0.402	0.146	(	0.361)	0.256
7	0.58	1.50	0.335	0.146	(	0.301)	0.189
8	0.67	1.80	0.402	0.146	(	0.361)	0.256
9	0.75	1.80	0.402	0.146	(	0.361)	0.256
10	0.83	1.50	0.335	0.146	(	0.301)	0.189
11	0.92	1.60	0.357	0.146	(	0.321)	0.211
12	1.00	1.80	0.402	0.146	(	0.361)	0.256
13	1.08	2.20	0.491	0.146	(	0.442)	0.345
14	1.17	2.20	0.491	0.146	(	0.442)	0.345
15	1.25	2.20	0.491	0.146	(	0.442)	0.345
16	1.33	2.00	0.446	0.146	(	0.402)	0.300
17	1.42	2.60	0.580	0.146	(	0.522)	0.434
18	1.50	2.70	0.602	0.146	(	0.542)	0.457
19	1.58	2.40	0.536	0.146	(	0.482)	0.390
20	1.67	2.70	0.602	0.146	(	0.542)	0.457
21	1.75	3.30	0.736	0.146	(	0.663)	0.590
22	1.83	3.10	0.692	0.146	(	0.623)	0.546
23	1.92	2.90	0.647	0.146	(	0.582)	0.501
24	2.00	3.00	0.669	0.146	(	0.602)	0.523
25	2.08	3.10	0.692	0.146	(	0.623)	0.546
26	2.17	4.20	0.937	0.146	(	0.843)	0.791
27	2.25	5.00	1.116	0.146	(	1.004)	0.970
28	2.33	3.50	0.781	0.146	(	0.703)	0.635
29	2.42	6.80	1.517	0.146	(	1.366)	1.371
30	2.50	7.30	1.629	0.146	(	1.466)	1.483
31	2.58	8.20	1.830	0.146	(	1.647)	1.684
32	2.67	5.90	1.316	0.146	(	1.185)	1.171
33	2.75	2.00	0.446	0.146	(	0.402)	0.300
34	2.83	1.80	0.402	0.146	(	0.361)	0.256
35	2.92	1.80	0.402	0.146	(	0.361)	0.256
36	3.00	0.60	0.134	(0.146)		0.120	0.013
		(Loss Rate Not Used)					
Sum =		100.0				Sum =	17.1

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1003100

Flood volume = Effective rainfall 1.42(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.0(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.437(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 346774.0 Cubic Feet
Total soil loss = 106138.8 Cubic Feet

Peak flow rate of this hydrograph = 88.283(CFS)

++

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0044	0.64	Q				
0+10	0.0277	3.38	VQ				
0+15	0.0688	5.96	V Q				
0+20	0.1149	6.70	V Q				
0+25	0.1712	8.18	V Q				
0+30	0.2420	10.28	V Q				
0+35	0.3254	12.11	V Q				
0+40	0.4145	12.93	V Q				
0+45	0.5096	13.81	V Q				
0+50	0.6117	14.83	V Q				
0+55	0.7104	14.33	V Q				
1+ 0	0.8072	14.05	V Q				
1+ 5	0.9138	15.47	V Q				
1+10	1.0387	18.13	V Q				
1+15	1.1785	20.30	V Q				
1+20	1.3237	21.09	V Q				
1+25	1.4711	21.39	V Q				
1+30	1.6334	23.57	V Q				
1+35	1.8138	26.20	V Q				
1+40	1.9981	26.77	VQ				
1+45	2.1919	28.13	VQ				
1+50	2.4106	31.75	V Q				
1+55	2.6443	33.94	V Q				
2+ 0	2.8772	33.81	VQ				
2+ 5	3.1110	33.96	Q				
2+10	3.3588	35.98	QV				
2+15	3.6494	42.19	Q				
2+20	3.9883	49.22	VQ				
2+25	4.3454	51.84	V Q				
2+30	4.7766	62.61	V Q				
2+35	5.3193	78.80	V Q				
2+40	5.9273	88.28	V Q				
2+45	6.4960	82.57	V Q				
2+50	6.9110	60.26	Q V				
2+55	7.1950	41.24	Q V				
3+ 0	7.4150	31.94	Q V				
3+ 5	7.5727	22.91	Q V				
3+10	7.6770	15.13	Q V				
3+15	7.7519	10.88	Q V				
3+20	7.8089	8.28	Q V				
3+25	7.8529	6.40	Q V				
3+30	7.8861	4.82	Q V				
3+35	7.9110	3.62	Q V				
3+40	7.9302	2.78	Q V				
3+45	7.9437	1.97	Q V				
3+50	7.9527	1.30	Q V				
3+55	7.9572	0.66	Q V				
4+ 0	7.9591	0.28	Q V				
4+ 5	7.9603	0.17	Q V				
4+10	7.9608	0.08	Q V				
4+15	7.9608	0.00	Q V				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1006100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX1006100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	52.307	6.571	4.443
2	0.167	104.614	28.083	18.991
3	0.250	156.922	28.549	19.306
4	0.333	209.229	12.179	8.236
5	0.417	261.536	6.595	4.460
6	0.500	313.843	4.589	3.103
7	0.583	366.151	3.296	2.229
8	0.667	418.458	2.462	1.665
9	0.750	470.765	1.797	1.215
10	0.833	523.072	1.548	1.047
11	0.917	575.380	1.191	0.806
12	1.000	627.687	0.940	0.636
13	1.083	679.994	0.721	0.488
14	1.167	732.301	0.542	0.367
15	1.250	784.608	0.523	0.354
16	1.333	836.916	0.415	0.281
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit	Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.146)	0.135	0.015
2	0.17	0.60	0.180	0.146	(0.162)	0.034
3	0.25	0.60	0.180	0.146	(0.162)	0.034
4	0.33	0.60	0.180	0.146	(0.162)	0.034
5	0.42	0.60	0.180	0.146	(0.162)	0.034
6	0.50	0.70	0.210	0.146	(0.189)	0.064
7	0.58	0.70	0.210	0.146	(0.189)	0.064
8	0.67	0.70	0.210	0.146	(0.189)	0.064
9	0.75	0.70	0.210	0.146	(0.189)	0.064
10	0.83	0.70	0.210	0.146	(0.189)	0.064
11	0.92	0.70	0.210	0.146	(0.189)	0.064
12	1.00	0.80	0.240	0.146	(0.216)	0.094
13	1.08	0.80	0.240	0.146	(0.216)	0.094
14	1.17	0.80	0.240	0.146	(0.216)	0.094
15	1.25	0.80	0.240	0.146	(0.216)	0.094
16	1.33	0.80	0.240	0.146	(0.216)	0.094
17	1.42	0.80	0.240	0.146	(0.216)	0.094
18	1.50	0.80	0.240	0.146	(0.216)	0.094
19	1.58	0.80	0.240	0.146	(0.216)	0.094
20	1.67	0.80	0.240	0.146	(0.216)	0.094
21	1.75	0.80	0.240	0.146	(0.216)	0.094
22	1.83	0.80	0.240	0.146	(0.216)	0.094
23	1.92	0.80	0.240	0.146	(0.216)	0.094
24	2.00	0.90	0.270	0.146	(0.243)	0.124
25	2.08	0.80	0.240	0.146	(0.216)	0.094
26	2.17	0.90	0.270	0.146	(0.243)	0.124
27	2.25	0.90	0.270	0.146	(0.243)	0.124
28	2.33	0.90	0.270	0.146	(0.243)	0.124
29	2.42	0.90	0.270	0.146	(0.243)	0.124
30	2.50	0.90	0.270	0.146	(0.243)	0.124
31	2.58	0.90	0.270	0.146	(0.243)	0.124
32	2.67	0.90	0.270	0.146	(0.243)	0.124
33	2.75	1.00	0.300	0.146	(0.270)	0.154
34	2.83	1.00	0.300	0.146	(0.270)	0.154
35	2.92	1.00	0.300	0.146	(0.270)	0.154
36	3.00	1.00	0.300	0.146	(0.270)	0.154
37	3.08	1.00	0.300	0.146	(0.270)	0.154
38	3.17	1.10	0.330	0.146	(0.297)	0.184

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

39	3.25	1.10	0.330	0.146	(0.297)	0.184	
40	3.33	1.10	0.330	0.146	(0.297)	0.184	
41	3.42	1.20	0.360	0.146	(0.324)	0.214	
42	3.50	1.30	0.390	0.146	(0.351)	0.244	
43	3.58	1.40	0.420	0.146	(0.378)	0.274	
44	3.67	1.40	0.420	0.146	(0.378)	0.274	
45	3.75	1.50	0.450	0.146	(0.405)	0.304	
46	3.83	1.50	0.450	0.146	(0.405)	0.304	
47	3.92	1.60	0.480	0.146	(0.432)	0.334	
48	4.00	1.60	0.480	0.146	(0.432)	0.334	
49	4.08	1.70	0.510	0.146	(0.459)	0.364	
50	4.17	1.80	0.540	0.146	(0.486)	0.394	
51	4.25	1.90	0.570	0.146	(0.513)	0.424	
52	4.33	2.00	0.600	0.146	(0.540)	0.454	
53	4.42	2.10	0.630	0.146	(0.567)	0.484	
54	4.50	2.10	0.630	0.146	(0.567)	0.484	
55	4.58	2.20	0.660	0.146	(0.594)	0.514	
56	4.67	2.30	0.690	0.146	(0.621)	0.544	
57	4.75	2.40	0.720	0.146	(0.648)	0.574	
58	4.83	2.40	0.720	0.146	(0.648)	0.574	
59	4.92	2.50	0.750	0.146	(0.675)	0.604	
60	5.00	2.60	0.780	0.146	(0.702)	0.634	
61	5.08	3.10	0.930	0.146	(0.837)	0.784	
62	5.17	3.60	1.080	0.146	(0.972)	0.934	
63	5.25	3.90	1.170	0.146	(1.053)	1.024	
64	5.33	4.20	1.260	0.146	(1.134)	1.114	
65	5.42	4.70	1.410	0.146	(1.269)	1.264	
66	5.50	5.60	1.680	0.146	(1.512)	1.534	
67	5.58	1.90	0.570	0.146	(0.513)	0.424	
68	5.67	0.90	0.270	0.146	(0.243)	0.124	
69	5.75	0.60	0.180	0.146	(0.162)	0.034	
70	5.83	0.50	0.150	(0.146)	0.135	0.015	
71	5.92	0.30	0.090	(0.146)	0.081	0.009	
72	6.00	0.20	0.060	(0.146)	0.054	0.006	

(Loss Rate Not Used)

Sum = 100.0 Sum = 19.7

Flood volume = Effective rainfall 1.64(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.2(Ac.Ft)
Total soil loss = 0.86(In)
Total soil loss = 4.814(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 399112.5 Cubic Feet
Total soil loss = 209679.5 Cubic Feet

Peak flow rate of this hydrograph = 77.753(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	20.0	40.0	60.0	80.0
0+ 5	0.0005	0.07	Q	|	|	|	|
0+10	0.0035	0.44	Q	|	|	|	|
0+15	0.0109	1.09	Q	|	|	|	|
0+20	0.0218	1.58	Q	|	|	|	|
0+25	0.0342	1.80	Q	|	|	|	|
0+30	0.0484	2.07	VQ	|	|	|	|
0+35	0.0672	2.73	VQ	|	|	|	|
0+40	0.0905	3.37	VQ	|	|	|	|
0+45	0.1158	3.67	VQ	|	|	|	|
0+50	0.1422	3.84	VQ	|	|	|	|
0+55	0.1696	3.97	VQ	|	|	|	|
1+ 0	0.1985	4.19	V Q	|	|	|	|
1+ 5	0.2317	4.83	|VQ	|	|	|	|
1+10	0.2694	5.46	|VQ	|	|	|	|
1+15	0.3090	5.76	|VQ	|	|	|	|
1+20	0.3498	5.92	|VQ	|	|	|	|
1+25	0.3914	6.04	|V Q	|	|	|	|
1+30	0.4336	6.12	|V Q	|	|	|	|
1+35	0.4762	6.18	| VQ	|	|	|	|
1+40	0.5191	6.23	| VQ	|	|	|	|
1+45	0.5623	6.27	| VQ	|	|	|	|
1+50	0.6056	6.30	| VQ	|	|	|	|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX1006100

1+55	0.6491	6.31	VQ
2+ 0	0.6936	6.46	Q
2+ 5	0.7412	6.91	Q
2+10	0.7899	7.06	Q
2+15	0.8402	7.31	Q
2+20	0.8938	7.78	Q
2+25	0.9487	7.98	QV
2+30	1.0044	8.09	Q
2+35	1.0607	8.17	Q
2+40	1.1173	8.22	Q
2+45	1.1751	8.40	QV
2+50	1.2371	9.00	QV
2+55	1.3032	9.60	QV
3+ 0	1.3712	9.87	QV
3+ 5	1.4402	10.02	QV
3+10	1.5108	10.26	QV
3+15	1.5859	10.90	QV
3+20	1.6654	11.54	Q V
3+25	1.7477	11.96	Q V
3+30	1.8361	12.83	Q V
3+35	1.9341	14.23	QV
3+40	2.0423	15.71	QV
3+45	2.1585	16.87	QV
3+50	2.2822	17.96	QV
3+55	2.4131	19.01	QV
4+ 0	2.5513	20.07	QV
4+ 5	2.6966	21.09	QV
4+10	2.8499	22.26	QV
4+15	3.0142	23.85	Q V
4+20	3.1905	25.61	QV
4+25	3.3795	27.44	QV
4+30	3.5806	29.19	QV
4+35	3.7909	30.54	QV
4+40	4.0107	31.92	Q V
4+45	4.2424	33.64	Q V
4+50	4.4859	35.35	Q V
4+55	4.7385	36.68	Q V
5+ 0	5.0004	38.04	Q V
5+ 5	5.2778	40.28	Q V
5+10	5.5874	44.94	Q V
5+15	5.9435	51.70	Q
5+20	6.3453	58.35	V Q
5+25	6.7907	64.67	V Q
5+30	7.2904	72.55	V Q
5+35	7.8259	77.75	V Q
5+40	8.2610	63.17	Q V
5+45	8.5332	39.53	Q V
5+50	8.7070	25.23	Q V
5+55	8.8272	17.45	Q V
6+ 0	8.9149	12.73	Q V
6+ 5	8.9807	9.56	Q V
6+10	9.0304	7.22	Q V
6+15	9.0688	5.56	Q V
6+20	9.0980	4.25	Q V
6+25	9.1201	3.20	Q V
6+30	9.1362	2.35	Q V
6+35	9.1478	1.67	Q V
6+40	9.1558	1.16	Q V
6+45	9.1604	0.67	Q V
6+50	9.1617	0.19	Q V
6+55	9.1621	0.06	Q V
7+ 0	9.1623	0.02	Q V
7+ 5	9.1623	0.01	Q V
7+10	9.1624	0.00	Q V
7+15	9.1624	0.00	Q V

3828EX10024100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828EX10024100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
EXISTING CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.030
Lag time = 0.159 Hr.
Lag time = 9.56 Min.
25% of lag time = 2.39 Min.
40% of lag time = 3.82 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	76.00	0.000

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
76.0	88.6	0.146	0.000	0.146	1.000	0.146
					Sum (F) =	0.146

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.146
Minimum soil loss rate ((In/Hr)) = 0.073
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.900

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)	Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1 0.083	52.307	6.571	4.443
2 0.167	104.614	28.083	18.991
3 0.250	156.922	28.549	19.306
4 0.333	209.229	12.179	8.236
5 0.417	261.536	6.595	4.460
6 0.500	313.843	4.589	3.103
7 0.583	366.151	3.296	2.229
8 0.667	418.458	2.462	1.665
9 0.750	470.765	1.797	1.215
10 0.833	523.072	1.548	1.047
11 0.917	575.380	1.191	0.806
12 1.000	627.687	0.940	0.636
13 1.083	679.994	0.721	0.488
14 1.167	732.301	0.542	0.367
15 1.250	784.608	0.523	0.354
16 1.333	836.916	0.415	0.281
		Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1 0.08	0.07	0.036	(0.259)	0.032	0.004
2 0.17	0.07	0.036	(0.258)	0.032	0.004
3 0.25	0.07	0.036	(0.257)	0.032	0.004
4 0.33	0.10	0.054	(0.256)	0.049	0.005
5 0.42	0.10	0.054	(0.255)	0.049	0.005
6 0.50	0.10	0.054	(0.254)	0.049	0.005
7 0.58	0.10	0.054	(0.253)	0.049	0.005
8 0.67	0.10	0.054	(0.252)	0.049	0.005
9 0.75	0.10	0.054	(0.251)	0.049	0.005
10 0.83	0.13	0.072	(0.250)	0.065	0.007
11 0.92	0.13	0.072	(0.249)	0.065	0.007
12 1.00	0.13	0.072	(0.248)	0.065	0.007
13 1.08	0.10	0.054	(0.247)	0.049	0.005
14 1.17	0.10	0.054	(0.246)	0.049	0.005
15 1.25	0.10	0.054	(0.245)	0.049	0.005
16 1.33	0.10	0.054	(0.244)	0.049	0.005
17 1.42	0.10	0.054	(0.243)	0.049	0.005
18 1.50	0.10	0.054	(0.242)	0.049	0.005
19 1.58	0.10	0.054	(0.241)	0.049	0.005
20 1.67	0.10	0.054	(0.240)	0.049	0.005
21 1.75	0.10	0.054	(0.239)	0.049	0.005
22 1.83	0.13	0.072	(0.238)	0.065	0.007
23 1.92	0.13	0.072	(0.237)	0.065	0.007
24 2.00	0.13	0.072	(0.236)	0.065	0.007
25 2.08	0.13	0.072	(0.235)	0.065	0.007
26 2.17	0.13	0.072	(0.234)	0.065	0.007
27 2.25	0.13	0.072	(0.233)	0.065	0.007
28 2.33	0.13	0.072	(0.232)	0.065	0.007
29 2.42	0.13	0.072	(0.231)	0.065	0.007
30 2.50	0.13	0.072	(0.231)	0.065	0.007
31 2.58	0.17	0.090	(0.230)	0.081	0.009
32 2.67	0.17	0.090	(0.229)	0.081	0.009
33 2.75	0.17	0.090	(0.228)	0.081	0.009
34 2.83	0.17	0.090	(0.227)	0.081	0.009
35 2.92	0.17	0.090	(0.226)	0.081	0.009
36 3.00	0.17	0.090	(0.225)	0.081	0.009
37 3.08	0.17	0.090	(0.224)	0.081	0.009
38 3.17	0.17	0.090	(0.223)	0.081	0.009

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10024100

39	3.25	0.17	0.090	(0.222)	0.081	0.009
40	3.33	0.17	0.090	(0.221)	0.081	0.009
41	3.42	0.17	0.090	(0.220)	0.081	0.009
42	3.50	0.17	0.090	(0.219)	0.081	0.009
43	3.58	0.17	0.090	(0.218)	0.081	0.009
44	3.67	0.17	0.090	(0.217)	0.081	0.009
45	3.75	0.17	0.090	(0.217)	0.081	0.009
46	3.83	0.20	0.108	(0.216)	0.097	0.011
47	3.92	0.20	0.108	(0.215)	0.097	0.011
48	4.00	0.20	0.108	(0.214)	0.097	0.011
49	4.08	0.20	0.108	(0.213)	0.097	0.011
50	4.17	0.20	0.108	(0.212)	0.097	0.011
51	4.25	0.20	0.108	(0.211)	0.097	0.011
52	4.33	0.23	0.126	(0.210)	0.113	0.013
53	4.42	0.23	0.126	(0.209)	0.113	0.013
54	4.50	0.23	0.126	(0.208)	0.113	0.013
55	4.58	0.23	0.126	(0.208)	0.113	0.013
56	4.67	0.23	0.126	(0.207)	0.113	0.013
57	4.75	0.23	0.126	(0.206)	0.113	0.013
58	4.83	0.27	0.144	(0.205)	0.130	0.014
59	4.92	0.27	0.144	(0.204)	0.130	0.014
60	5.00	0.27	0.144	(0.203)	0.130	0.014
61	5.08	0.20	0.108	(0.202)	0.097	0.011
62	5.17	0.20	0.108	(0.201)	0.097	0.011
63	5.25	0.20	0.108	(0.200)	0.097	0.011
64	5.33	0.23	0.126	(0.200)	0.113	0.013
65	5.42	0.23	0.126	(0.199)	0.113	0.013
66	5.50	0.23	0.126	(0.198)	0.113	0.013
67	5.58	0.27	0.144	(0.197)	0.130	0.014
68	5.67	0.27	0.144	(0.196)	0.130	0.014
69	5.75	0.27	0.144	(0.195)	0.130	0.014
70	5.83	0.27	0.144	(0.194)	0.130	0.014
71	5.92	0.27	0.144	(0.194)	0.130	0.014
72	6.00	0.27	0.144	(0.193)	0.130	0.014
73	6.08	0.30	0.162	(0.192)	0.146	0.016
74	6.17	0.30	0.162	(0.191)	0.146	0.016
75	6.25	0.30	0.162	(0.190)	0.146	0.016
76	6.33	0.30	0.162	(0.189)	0.146	0.016
77	6.42	0.30	0.162	(0.188)	0.146	0.016
78	6.50	0.30	0.162	(0.188)	0.146	0.016
79	6.58	0.33	0.180	(0.187)	0.162	0.018
80	6.67	0.33	0.180	(0.186)	0.162	0.018
81	6.75	0.33	0.180	(0.185)	0.162	0.018
82	6.83	0.33	0.180	(0.184)	0.162	0.018
83	6.92	0.33	0.180	(0.183)	0.162	0.018
84	7.00	0.33	0.180	(0.183)	0.162	0.018
85	7.08	0.33	0.180	(0.182)	0.162	0.018
86	7.17	0.33	0.180	(0.181)	0.162	0.018
87	7.25	0.33	0.180	(0.180)	0.162	0.018
88	7.33	0.37	0.198	(0.179)	0.178	0.020
89	7.42	0.37	0.198	(0.178)	0.178	0.020
90	7.50	0.37	0.198	0.178	(0.178)	0.020
91	7.58	0.40	0.216	0.177	(0.194)	0.039
92	7.67	0.40	0.216	0.176	(0.194)	0.040
93	7.75	0.40	0.216	0.175	(0.194)	0.041
94	7.83	0.43	0.234	0.174	(0.211)	0.060
95	7.92	0.43	0.234	0.174	(0.211)	0.060
96	8.00	0.43	0.234	0.173	(0.211)	0.061
97	8.08	0.50	0.270	0.172	(0.243)	0.098
98	8.17	0.50	0.270	0.171	(0.243)	0.099
99	8.25	0.50	0.270	0.170	(0.243)	0.100
100	8.33	0.50	0.270	0.170	(0.243)	0.100
101	8.42	0.50	0.270	0.169	(0.243)	0.101
102	8.50	0.50	0.270	0.168	(0.243)	0.102
103	8.58	0.53	0.288	0.167	(0.259)	0.121
104	8.67	0.53	0.288	0.166	(0.259)	0.122
105	8.75	0.53	0.288	0.166	(0.259)	0.122
106	8.83	0.57	0.306	0.165	(0.275)	0.141
107	8.92	0.57	0.306	0.164	(0.275)	0.142
108	9.00	0.57	0.306	0.163	(0.275)	0.143
109	9.08	0.63	0.342	0.162	(0.308)	0.179
110	9.17	0.63	0.342	0.162	(0.308)	0.180
111	9.25	0.63	0.342	0.161	(0.308)	0.181
112	9.33	0.67	0.360	0.160	(0.324)	0.200
113	9.42	0.67	0.360	0.159	(0.324)	0.201
114	9.50	0.67	0.360	0.159	(0.324)	0.201
115	9.58	0.70	0.378	0.158	(0.340)	0.220

116	9.67	0.70	0.378	0.157	(	0.340)	0.221
117	9.75	0.70	0.378	0.156	(	0.340)	0.222
118	9.83	0.73	0.396	0.156	(	0.356)	0.240
119	9.92	0.73	0.396	0.155	(	0.356)	0.241
120	10.00	0.73	0.396	0.154	(	0.356)	0.242
121	10.08	0.50	0.270	0.153	(	0.243)	0.117
122	10.17	0.50	0.270	0.153	(	0.243)	0.117
123	10.25	0.50	0.270	0.152	(	0.243)	0.118
124	10.33	0.50	0.270	0.151	(	0.243)	0.119
125	10.42	0.50	0.270	0.150	(	0.243)	0.120
126	10.50	0.50	0.270	0.150	(	0.243)	0.120
127	10.58	0.67	0.360	0.149	(	0.324)	0.211
128	10.67	0.67	0.360	0.148	(	0.324)	0.212
129	10.75	0.67	0.360	0.148	(	0.324)	0.212
130	10.83	0.67	0.360	0.147	(	0.324)	0.213
131	10.92	0.67	0.360	0.146	(	0.324)	0.214
132	11.00	0.67	0.360	0.145	(	0.324)	0.215
133	11.08	0.63	0.342	0.145	(	0.308)	0.197
134	11.17	0.63	0.342	0.144	(	0.308)	0.198
135	11.25	0.63	0.342	0.143	(	0.308)	0.199
136	11.33	0.63	0.342	0.143	(	0.308)	0.199
137	11.42	0.63	0.342	0.142	(	0.308)	0.200
138	11.50	0.63	0.342	0.141	(	0.308)	0.201
139	11.58	0.57	0.306	0.140	(	0.275)	0.166
140	11.67	0.57	0.306	0.140	(	0.275)	0.166
141	11.75	0.57	0.306	0.139	(	0.275)	0.167
142	11.83	0.60	0.324	0.138	(	0.292)	0.186
143	11.92	0.60	0.324	0.138	(	0.292)	0.186
144	12.00	0.60	0.324	0.137	(	0.292)	0.187
145	12.08	0.83	0.450	0.136	(	0.405)	0.314
146	12.17	0.83	0.450	0.136	(	0.405)	0.314
147	12.25	0.83	0.450	0.135	(	0.405)	0.315
148	12.33	0.87	0.468	0.134	(	0.421)	0.334
149	12.42	0.87	0.468	0.134	(	0.421)	0.334
150	12.50	0.87	0.468	0.133	(	0.421)	0.335
151	12.58	0.93	0.504	0.132	(	0.454)	0.372
152	12.67	0.93	0.504	0.132	(	0.454)	0.372
153	12.75	0.93	0.504	0.131	(	0.454)	0.373
154	12.83	0.97	0.522	0.130	(	0.470)	0.392
155	12.92	0.97	0.522	0.130	(	0.470)	0.392
156	13.00	0.97	0.522	0.129	(	0.470)	0.393
157	13.08	1.13	0.612	0.128	(	0.551)	0.484
158	13.17	1.13	0.612	0.128	(	0.551)	0.484
159	13.25	1.13	0.612	0.127	(	0.551)	0.485
160	13.33	1.13	0.612	0.126	(	0.551)	0.486
161	13.42	1.13	0.612	0.126	(	0.551)	0.486
162	13.50	1.13	0.612	0.125	(	0.551)	0.487
163	13.58	0.77	0.414	0.124	(	0.373)	0.290
164	13.67	0.77	0.414	0.124	(	0.373)	0.290
165	13.75	0.77	0.414	0.123	(	0.373)	0.291
166	13.83	0.77	0.414	0.122	(	0.373)	0.291
167	13.92	0.77	0.414	0.122	(	0.373)	0.292
168	14.00	0.77	0.414	0.121	(	0.373)	0.293
169	14.08	0.90	0.486	0.121	(	0.437)	0.365
170	14.17	0.90	0.486	0.120	(	0.437)	0.366
171	14.25	0.90	0.486	0.119	(	0.437)	0.367
172	14.33	0.87	0.468	0.119	(	0.421)	0.349
173	14.42	0.87	0.468	0.118	(	0.421)	0.350
174	14.50	0.87	0.468	0.118	(	0.421)	0.350
175	14.58	0.87	0.468	0.117	(	0.421)	0.351
176	14.67	0.87	0.468	0.116	(	0.421)	0.352
177	14.75	0.87	0.468	0.116	(	0.421)	0.352
178	14.83	0.83	0.450	0.115	(	0.405)	0.335
179	14.92	0.83	0.450	0.115	(	0.405)	0.335
180	15.00	0.83	0.450	0.114	(	0.405)	0.336
181	15.08	0.80	0.432	0.113	(	0.389)	0.319
182	15.17	0.80	0.432	0.113	(	0.389)	0.319
183	15.25	0.80	0.432	0.112	(	0.389)	0.320
184	15.33	0.77	0.414	0.112	(	0.373)	0.302
185	15.42	0.77	0.414	0.111	(	0.373)	0.303
186	15.50	0.77	0.414	0.111	(	0.373)	0.303
187	15.58	0.63	0.342	0.110	(	0.308)	0.232
188	15.67	0.63	0.342	0.109	(	0.308)	0.233
189	15.75	0.63	0.342	0.109	(	0.308)	0.233
190	15.83	0.63	0.342	0.108	(	0.308)	0.234
191	15.92	0.63	0.342	0.108	(	0.308)	0.234
192	16.00	0.63	0.342	0.107	(	0.308)	0.235

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

193	16.08	0.13	0.072	(0.107)	0.065	0.007
194	16.17	0.13	0.072	(0.106)	0.065	0.007
195	16.25	0.13	0.072	(0.106)	0.065	0.007
196	16.33	0.13	0.072	(0.105)	0.065	0.007
197	16.42	0.13	0.072	(0.104)	0.065	0.007
198	16.50	0.13	0.072	(0.104)	0.065	0.007
199	16.58	0.10	0.054	(0.103)	0.049	0.005
200	16.67	0.10	0.054	(0.103)	0.049	0.005
201	16.75	0.10	0.054	(0.102)	0.049	0.005
202	16.83	0.10	0.054	(0.102)	0.049	0.005
203	16.92	0.10	0.054	(0.101)	0.049	0.005
204	17.00	0.10	0.054	(0.101)	0.049	0.005
205	17.08	0.17	0.090	(0.100)	0.081	0.009
206	17.17	0.17	0.090	(0.100)	0.081	0.009
207	17.25	0.17	0.090	(0.099)	0.081	0.009
208	17.33	0.17	0.090	(0.099)	0.081	0.009
209	17.42	0.17	0.090	(0.098)	0.081	0.009
210	17.50	0.17	0.090	(0.098)	0.081	0.009
211	17.58	0.17	0.090	(0.097)	0.081	0.009
212	17.67	0.17	0.090	(0.097)	0.081	0.009
213	17.75	0.17	0.090	(0.096)	0.081	0.009
214	17.83	0.13	0.072	(0.096)	0.065	0.007
215	17.92	0.13	0.072	(0.095)	0.065	0.007
216	18.00	0.13	0.072	(0.095)	0.065	0.007
217	18.08	0.13	0.072	(0.094)	0.065	0.007
218	18.17	0.13	0.072	(0.094)	0.065	0.007
219	18.25	0.13	0.072	(0.094)	0.065	0.007
220	18.33	0.13	0.072	(0.093)	0.065	0.007
221	18.42	0.13	0.072	(0.093)	0.065	0.007
222	18.50	0.13	0.072	(0.092)	0.065	0.007
223	18.58	0.10	0.054	(0.092)	0.049	0.005
224	18.67	0.10	0.054	(0.091)	0.049	0.005
225	18.75	0.10	0.054	(0.091)	0.049	0.005
226	18.83	0.07	0.036	(0.090)	0.032	0.004
227	18.92	0.07	0.036	(0.090)	0.032	0.004
228	19.00	0.07	0.036	(0.090)	0.032	0.004
229	19.08	0.10	0.054	(0.089)	0.049	0.005
230	19.17	0.10	0.054	(0.089)	0.049	0.005
231	19.25	0.10	0.054	(0.088)	0.049	0.005
232	19.33	0.13	0.072	(0.088)	0.065	0.007
233	19.42	0.13	0.072	(0.087)	0.065	0.007
234	19.50	0.13	0.072	(0.087)	0.065	0.007
235	19.58	0.10	0.054	(0.087)	0.049	0.005
236	19.67	0.10	0.054	(0.086)	0.049	0.005
237	19.75	0.10	0.054	(0.086)	0.049	0.005
238	19.83	0.07	0.036	(0.086)	0.032	0.004
239	19.92	0.07	0.036	(0.085)	0.032	0.004
240	20.00	0.07	0.036	(0.085)	0.032	0.004
241	20.08	0.10	0.054	(0.084)	0.049	0.005
242	20.17	0.10	0.054	(0.084)	0.049	0.005
243	20.25	0.10	0.054	(0.084)	0.049	0.005
244	20.33	0.10	0.054	(0.083)	0.049	0.005
245	20.42	0.10	0.054	(0.083)	0.049	0.005
246	20.50	0.10	0.054	(0.083)	0.049	0.005
247	20.58	0.10	0.054	(0.082)	0.049	0.005
248	20.67	0.10	0.054	(0.082)	0.049	0.005
249	20.75	0.10	0.054	(0.082)	0.049	0.005
250	20.83	0.07	0.036	(0.081)	0.032	0.004
251	20.92	0.07	0.036	(0.081)	0.032	0.004
252	21.00	0.07	0.036	(0.081)	0.032	0.004
253	21.08	0.10	0.054	(0.080)	0.049	0.005
254	21.17	0.10	0.054	(0.080)	0.049	0.005
255	21.25	0.10	0.054	(0.080)	0.049	0.005
256	21.33	0.07	0.036	(0.079)	0.032	0.004
257	21.42	0.07	0.036	(0.079)	0.032	0.004
258	21.50	0.07	0.036	(0.079)	0.032	0.004
259	21.58	0.10	0.054	(0.078)	0.049	0.005
260	21.67	0.10	0.054	(0.078)	0.049	0.005
261	21.75	0.10	0.054	(0.078)	0.049	0.005
262	21.83	0.07	0.036	(0.078)	0.032	0.004
263	21.92	0.07	0.036	(0.077)	0.032	0.004
264	22.00	0.07	0.036	(0.077)	0.032	0.004
265	22.08	0.10	0.054	(0.077)	0.049	0.005
266	22.17	0.10	0.054	(0.077)	0.049	0.005
267	22.25	0.10	0.054	(0.076)	0.049	0.005
268	22.33	0.07	0.036	(0.076)	0.032	0.004
269	22.42	0.07	0.036	(0.076)	0.032	0.004

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

270	22.50	0.07	0.036	(0.076)	0.032	0.004
271	22.58	0.07	0.036	(0.075)	0.032	0.004
272	22.67	0.07	0.036	(0.075)	0.032	0.004
273	22.75	0.07	0.036	(0.075)	0.032	0.004
274	22.83	0.07	0.036	(0.075)	0.032	0.004
275	22.92	0.07	0.036	(0.075)	0.032	0.004
276	23.00	0.07	0.036	(0.074)	0.032	0.004
277	23.08	0.07	0.036	(0.074)	0.032	0.004
278	23.17	0.07	0.036	(0.074)	0.032	0.004
279	23.25	0.07	0.036	(0.074)	0.032	0.004
280	23.33	0.07	0.036	(0.074)	0.032	0.004
281	23.42	0.07	0.036	(0.074)	0.032	0.004
282	23.50	0.07	0.036	(0.074)	0.032	0.004
283	23.58	0.07	0.036	(0.073)	0.032	0.004
284	23.67	0.07	0.036	(0.073)	0.032	0.004
285	23.75	0.07	0.036	(0.073)	0.032	0.004
286	23.83	0.07	0.036	(0.073)	0.032	0.004
287	23.92	0.07	0.036	(0.073)	0.032	0.004
288	24.00	0.07	0.036	(0.073)	0.032	0.004

(Loss Rate Not Used)

Sum = 100.0 Sum = 26.3

Flood volume = Effective rainfall 2.19(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.3(Ac.Ft)
Total soil loss = 2.31(In)
Total soil loss = 12.893(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 534307.9 Cubic Feet
Total soil loss = 561626.9 Cubic Feet

Peak flow rate of this hydrograph = 31.869(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0001	0.02	Q				
0+10	0.0007	0.08	Q				
0+15	0.0018	0.15	Q				
0+20	0.0031	0.19	Q				
0+25	0.0047	0.24	Q				
0+30	0.0067	0.29	Q				
0+35	0.0089	0.31	Q				
0+40	0.0111	0.32	Q				
0+45	0.0134	0.33	Q				
0+50	0.0158	0.35	Q				
0+55	0.0185	0.39	Q				
1+ 0	0.0215	0.43	Q				
1+ 5	0.0245	0.44	Q				
1+10	0.0274	0.42	Q				
1+15	0.0300	0.39	Q				
1+20	0.0327	0.38	Q				
1+25	0.0353	0.38	Q				
1+30	0.0378	0.37	Q				
1+35	0.0404	0.37	Q				
1+40	0.0430	0.37	Q				
1+45	0.0455	0.37	Q				
1+50	0.0481	0.38	Q				
1+55	0.0509	0.41	Q				
2+ 0	0.0540	0.44	Q				
2+ 5	0.0572	0.46	Q				
2+10	0.0604	0.47	Q				
2+15	0.0636	0.47	Q				
2+20	0.0669	0.47	Q				
2+25	0.0702	0.48	Q				
2+30	0.0735	0.48	Q				
2+35	0.0768	0.49	Q				
2+40	0.0805	0.53	Q				
2+45	0.0843	0.56	Q				
2+50	0.0883	0.58	Q				
2+55	0.0923	0.59	Q				
3+ 0	0.0964	0.59	Q				
3+ 5	0.1005	0.60	Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+10	0.1047	0.60	Q	|	|	|	|
3+15	0.1088	0.60	Q	|	|	|	|
3+20	0.1130	0.60	Q	|	|	|	|
3+25	0.1171	0.61	Q	|	|	|	|
3+30	0.1213	0.61	Q	|	|	|	|
3+35	0.1255	0.61	Q	|	|	|	|
3+40	0.1297	0.61	Q	|	|	|	|
3+45	0.1339	0.61	Q	|	|	|	|
3+50	0.1381	0.62	Q	|	|	|	|
3+55	0.1426	0.65	Q	|	|	|	|
4+ 0	0.1473	0.69	Q	|	|	|	|
4+ 5	0.1521	0.70	Q	|	|	|	|
4+10	0.1570	0.71	Q	|	|	|	|
4+15	0.1619	0.71	Q	|	|	|	|
4+20	0.1669	0.73	Q	|	|	|	|
4+25	0.1722	0.76	Q	|	|	|	|
4+30	0.1777	0.80	Q	|	|	|	|
4+35	0.1833	0.82	Q	|	|	|	|
4+40	0.1890	0.83	Q	|	|	|	|
4+45	0.1948	0.83	Q	|	|	|	|
4+50	0.2006	0.85	Q	|	|	|	|
4+55	0.2067	0.88	Q	|	|	|	|
5+ 0	0.2130	0.92	Q	|	|	|	|
5+ 5	0.2194	0.92	Q	|	|	|	|
5+10	0.2253	0.86	Q	|	|	|	|
5+15	0.2309	0.80	Q	|	|	|	|
5+20	0.2363	0.78	Q	|	|	|	|
5+25	0.2418	0.81	Q	|	|	|	|
5+30	0.2475	0.83	Q	|	|	|	|
5+35	0.2534	0.85	Q	|	|	|	|
5+40	0.2595	0.89	Q	|	|	|	|
5+45	0.2659	0.92	Q	|	|	|	|
5+50	0.2724	0.94	Q	|	|	|	|
5+55	0.2789	0.95	Q	|	|	|	|
6+ 0	0.2855	0.96	Q	|	|	|	|
6+ 5	0.2921	0.97	Q	|	|	|	|
6+10	0.2991	1.01	VQ	|	|	|	|
6+15	0.3062	1.04	VQ	|	|	|	|
6+20	0.3135	1.06	|Q	|	|	|	|
6+25	0.3209	1.07	|Q	|	|	|	|
6+30	0.3283	1.08	|Q	|	|	|	|
6+35	0.3358	1.09	|Q	|	|	|	|
6+40	0.3436	1.13	|Q	|	|	|	|
6+45	0.3516	1.17	|Q	|	|	|	|
6+50	0.3598	1.18	|Q	|	|	|	|
6+55	0.3680	1.19	|Q	|	|	|	|
7+ 0	0.3762	1.20	|Q	|	|	|	|
7+ 5	0.3845	1.20	|Q	|	|	|	|
7+10	0.3928	1.21	|Q	|	|	|	|
7+15	0.4012	1.21	|Q	|	|	|	|
7+20	0.4096	1.22	|Q	|	|	|	|
7+25	0.4182	1.26	|Q	|	|	|	|
7+30	0.4271	1.29	|Q	|	|	|	|
7+35	0.4368	1.40	|Q	|	|	|	|
7+40	0.4491	1.79	|Q	|	|	|	|
7+45	0.4641	2.18	|VQ	|	|	|	|
7+50	0.4810	2.46	|VQ	|	|	|	|
7+55	0.5012	2.93	|VQ	|	|	|	|
8+ 0	0.5245	3.38	|V Q	|	|	|	|
8+ 5	0.5505	3.78	|V Q	|	|	|	|
8+10	0.5824	4.63	|V Q	|	|	|	|
8+15	0.6200	5.46	| V Q	|	|	|	|
8+20	0.6604	5.86	| V Q	|	|	|	|
8+25	0.7026	6.12	| V Q	|	|	|	|
8+30	0.7461	6.32	| V Q	|	|	|	|
8+35	0.7913	6.56	| V Q	|	|	|	|
8+40	0.8398	7.04	| V Q	|	|	|	|
8+45	0.8914	7.50	| V Q	|	|	|	|
8+50	0.9454	7.84	| V Q	|	|	|	|
8+55	1.0029	8.35	| V Q	|	|	|	|
9+ 0	1.0637	8.83	| V Q	|	|	|	|
9+ 5	1.1274	9.26	| V Q|	|	|	|	|
9+10	1.1971	10.12	| V Q	|	|	|	|
9+15	1.2726	10.95	| V Q	|	|	|	|
9+20	1.3514	11.45	| V |Q	|	|	|	|
9+25	1.4344	12.05	| V | Q	|	|	|	|
9+30	1.5212	12.60	| V | Q	|	|	|	|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828EX10024100

9+35	1.6106	12.98	V	Q			
9+40	1.7039	13.54	V	Q			
9+45	1.8007	14.06	V	Q			
9+50	1.9000	14.43	V	Q			
9+55	2.0031	14.97	V	Q			
10+ 0	2.1097	15.47	V	Q			
10+ 5	2.2143	15.19	V	Q			
10+10	2.3037	12.99	V	Q			
10+15	2.3775	10.71	V	Q			
10+20	2.4450	9.80	V	Q			
10+25	2.5093	9.34	V	Q			
10+30	2.5715	9.04	V	Q			
10+35	2.6351	9.24	V	Q			
10+40	2.7095	10.81	V	Q			
10+45	2.7953	12.46	V	Q			
10+50	2.8858	13.13	V	Q			
10+55	2.9787	13.49	V	Q			
11+ 0	3.0733	13.74	V	Q			
11+ 5	3.1688	13.86	V	Q			
11+10	3.2629	13.67	V	Q			
11+15	3.3554	13.43	V	Q			
11+20	3.4476	13.39	V	Q			
11+25	3.5401	13.43	V	Q			
11+30	3.6330	13.48	V	Q			
11+35	3.7251	13.37	V	Q			
11+40	3.8128	12.74		Q			
11+45	3.8962	12.10		Q			
11+50	3.9784	11.94		QV			
11+55	4.0621	12.15		QV			
12+ 0	4.1477	12.42		QV			
12+ 5	4.2378	13.09		Q			
12+10	4.3449	15.55		VQ			
12+15	4.4691	18.03		V	Q		
12+20	4.6012	19.19		V	Q		
12+25	4.7400	20.14		V	Q		
12+30	4.8841	20.93		V	Q		
12+35	5.0326	21.56		V	Q		
12+40	5.1882	22.58		V	Q		
12+45	5.3502	23.53		V	Q		
12+50	5.5164	24.13		V	Q		
12+55	5.6873	24.81		V	Q		
13+ 0	5.8624	25.42		V	Q		
13+ 5	6.0427	26.18		V	Q		
13+10	6.2365	28.14		V	Q		
13+15	6.4436	30.08		V	Q		
13+20	6.6570	30.98		V	Q		
13+25	6.8739	31.50		V	Q		
13+30	7.0934	31.87		V	Q		
13+35	7.3088	31.27		V	Q		
13+40	7.4998	27.73		V	Q		
13+45	7.6657	24.09		Q			
13+50	7.8214	22.61		Q	V		
13+55	7.9719	21.85		Q	V		
14+ 0	8.1189	21.34		Q	V		
14+ 5	8.2657	21.31		Q	V		
14+10	8.4201	22.43		Q	V		
14+15	8.5830	23.65		Q	V		
14+20	8.7484	24.02		Q	V		
14+25	8.9129	23.88		Q	V		
14+30	9.0760	23.68		Q	V		
14+35	9.2387	23.63		Q	V		
14+40	9.4015	23.64		Q	V		
14+45	9.5644	23.64		Q	V		
14+50	9.7268	23.58		Q	V		
14+55	9.8873	23.31		Q	V		
15+ 0	10.0459	23.03		Q	V		
15+ 5	10.2033	22.85		Q	V		
15+10	10.3581	22.48		Q	V		
15+15	10.5106	22.13		Q	V		
15+20	10.6615	21.92		Q	V		
15+25	10.8096	21.50		Q	V		
15+30	10.9549	21.10		Q	V		
15+35	11.0969	20.61		Q	V		
15+40	11.2288	19.16		Q	V		
15+45	11.3508	17.72		Q	V		
15+50	11.4685	17.09		Q	V		
15+55	11.5840	16.76		Q	V		

3828EX10024100

16+ 0	11.6978	16.53	|	|	Q	|	|	V |
16+ 5	11.8036	15.36	|	|	Q	|	|	V |
16+10	11.8789	10.92	|	Q	|	|	|	V |
16+15	11.9232	6.44	|	Q	|	|	|	V |
16+20	11.9541	4.48	|	Q	|	|	|	V |
16+25	11.9775	3.41	|	Q	|	|	|	V|
16+30	11.9958	2.65	|	Q	|	|	|	V|
16+35	12.0103	2.10	|	Q	|	|	|	V|
16+40	12.0218	1.67	|	Q	|	|	|	V|
16+45	12.0309	1.33	|	Q	|	|	|	V|
16+50	12.0382	1.06	|	Q	|	|	|	V|
16+55	12.0442	0.87	|	Q	|	|	|	V|
17+ 0	12.0492	0.72	|	Q	|	|	|	V|
17+ 5	12.0534	0.62	|	Q	|	|	|	V|
17+10	12.0576	0.60	|	Q	|	|	|	V|
17+15	12.0617	0.59	|	Q	|	|	|	V|
17+20	12.0655	0.55	|	Q	|	|	|	V|
17+25	12.0694	0.57	|	Q	|	|	|	V|
17+30	12.0734	0.58	|	Q	|	|	|	V|
17+35	12.0774	0.59	|	Q	|	|	|	V|
17+40	12.0815	0.59	|	Q	|	|	|	V|
17+45	12.0856	0.60	|	Q	|	|	|	V|
17+50	12.0897	0.59	|	Q	|	|	|	V|
17+55	12.0935	0.56	|	Q	|	|	|	V|
18+ 0	12.0971	0.53	|	Q	|	|	|	V|
18+ 5	12.1007	0.51	|	Q	|	|	|	V|
18+10	12.1042	0.51	|	Q	|	|	|	V|
18+15	12.1076	0.50	|	Q	|	|	|	V|
18+20	12.1111	0.50	|	Q	|	|	|	V|
18+25	12.1145	0.50	|	Q	|	|	|	V|
18+30	12.1179	0.49	|	Q	|	|	|	V|
18+35	12.1212	0.48	|	Q	|	|	|	V|
18+40	12.1243	0.45	|	Q	|	|	|	V|
18+45	12.1272	0.41	|	Q	|	|	|	V|
18+50	12.1298	0.39	|	Q	|	|	|	V|
18+55	12.1322	0.35	|	Q	|	|	|	V|
19+ 0	12.1343	0.31	|	Q	|	|	|	V|
19+ 5	12.1363	0.29	|	Q	|	|	|	V|
19+10	12.1385	0.32	|	Q	|	|	|	V|
19+15	12.1409	0.34	|	Q	|	|	|	V|
19+20	12.1434	0.36	|	Q	|	|	|	V|
19+25	12.1461	0.40	|	Q	|	|	|	V|
19+30	12.1491	0.44	|	Q	|	|	|	V|
19+35	12.1522	0.44	|	Q	|	|	|	V|
19+40	12.1551	0.42	|	Q	|	|	|	V|
19+45	12.1578	0.39	|	Q	|	|	|	V|
19+50	12.1603	0.37	|	Q	|	|	|	V|
19+55	12.1626	0.33	|	Q	|	|	|	V|
20+ 0	12.1646	0.30	|	Q	|	|	|	V|
20+ 5	12.1666	0.29	|	Q	|	|	|	V|
20+10	12.1688	0.31	|	Q	|	|	|	V|
20+15	12.1711	0.34	|	Q	|	|	|	V|
20+20	12.1735	0.35	|	Q	|	|	|	V|
20+25	12.1760	0.36	|	Q	|	|	|	V|
20+30	12.1784	0.36	|	Q	|	|	|	V|
20+35	12.1809	0.36	|	Q	|	|	|	V|
20+40	12.1834	0.36	|	Q	|	|	|	V|
20+45	12.1859	0.36	|	Q	|	|	|	V|
20+50	12.1883	0.35	|	Q	|	|	|	V|
20+55	12.1905	0.32	|	Q	|	|	|	V|
21+ 0	12.1925	0.29	|	Q	|	|	|	V|
21+ 5	12.1944	0.28	|	Q	|	|	|	V|
21+10	12.1966	0.31	|	Q	|	|	|	V|
21+15	12.1989	0.34	|	Q	|	|	|	V|
21+20	12.2012	0.34	|	Q	|	|	|	V|
21+25	12.2033	0.31	|	Q	|	|	|	V|
21+30	12.2053	0.28	|	Q	|	|	|	V|
21+35	12.2072	0.27	|	Q	|	|	|	V|
21+40	12.2092	0.30	|	Q	|	|	|	V|
21+45	12.2115	0.33	|	Q	|	|	|	V|
21+50	12.2138	0.34	|	Q	|	|	|	V|
21+55	12.2160	0.31	|	Q	|	|	|	V|
22+ 0	12.2179	0.28	|	Q	|	|	|	V|
22+ 5	12.2198	0.27	|	Q	|	|	|	V|
22+10	12.2218	0.30	|	Q	|	|	|	V|
22+15	12.2241	0.33	|	Q	|	|	|	V|
22+20	12.2264	0.34	|	Q	|	|	|	V|

3828EX10024100

22+25	12.2285	0.31	Q	|	|	|	V|
22+30	12.2305	0.28	Q	|	|	|	V|
22+35	12.2323	0.26	Q	|	|	|	V|
22+40	12.2341	0.26	Q	|	|	|	V|
22+45	12.2358	0.25	Q	|	|	|	V|
22+50	12.2376	0.25	Q	|	|	|	V|
22+55	12.2393	0.25	Q	|	|	|	V|
23+ 0	12.2410	0.25	Q	|	|	|	V|
23+ 5	12.2427	0.25	Q	|	|	|	V|
23+10	12.2444	0.25	Q	|	|	|	V|
23+15	12.2461	0.25	Q	|	|	|	V|
23+20	12.2478	0.25	Q	|	|	|	V|
23+25	12.2494	0.24	Q	|	|	|	V|
23+30	12.2511	0.24	Q	|	|	|	V|
23+35	12.2528	0.24	Q	|	|	|	V|
23+40	12.2545	0.24	Q	|	|	|	V|
23+45	12.2562	0.24	Q	|	|	|	V|
23+50	12.2578	0.24	Q	|	|	|	V|
23+55	12.2595	0.24	Q	|	|	|	V|
24+ 0	12.2612	0.24	Q	|	|	|	V|
24+ 5	12.2628	0.23	Q	|	|	|	V|
24+10	12.2639	0.16	Q	|	|	|	V|
24+15	12.2645	0.09	Q	|	|	|	V|
24+20	12.2649	0.06	Q	|	|	|	V|
24+25	12.2652	0.04	Q	|	|	|	V|
24+30	12.2654	0.03	Q	|	|	|	V|
24+35	12.2656	0.02	Q	|	|	|	V|
24+40	12.2657	0.02	Q	|	|	|	V|
24+45	12.2658	0.01	Q	|	|	|	V|
24+50	12.2659	0.01	Q	|	|	|	V|
24+55	12.2659	0.01	Q	|	|	|	V|
25+ 0	12.2660	0.01	Q	|	|	|	V|
25+ 5	12.2660	0.00	Q	|	|	|	V|
25+10	12.2660	0.00	Q	|	|	|	V|
25+15	12.2660	0.00	Q	|	|	|	V

PROPOSED CONDITION

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR212.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.500(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.500(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.252	(0.134)	0.025	0.227
2	0.17	4.30	0.258	(0.134)	0.026	0.232
3	0.25	5.00	0.300	(0.134)	0.030	0.270
4	0.33	5.00	0.300	(0.134)	0.030	0.270
5	0.42	5.80	0.348	(0.134)	0.035	0.313
6	0.50	6.50	0.390	(0.134)	0.039	0.351
7	0.58	7.40	0.444	(0.134)	0.044	0.399
8	0.67	8.60	0.516	(0.134)	0.052	0.464
9	0.75	12.30	0.738	(0.134)	0.074	0.664
10	0.83	29.10	1.745	0.134	(0.174)	1.611
11	0.92	6.80	0.408	(0.134)	0.041	0.367
12	1.00	5.00	0.300	(0.134)	0.030	0.270
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	5.4

Flood volume = Effective rainfall 0.45(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 2.5(Ac.Ft)
Total soil loss = 0.05(In)
Total soil loss = 0.261(Ac.Ft)
Total rainfall = 0.50(In)
Flood volume = 110360.3 Cubic Feet
Total soil loss = 11352.2 Cubic Feet

Peak flow rate of this hydrograph = 69.176(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

```
Time(h+m) Volume Ac.Ft   Q(CFS)  0       17.5      35.0      52.5      70.0
-------------------------------------------------------------------------
  0+ 5       0.0218      3.16  VQ        |         |         |         |
  0+10       0.0955     10.70  |V    Q   |         |         |         |
  0+15       0.1898     13.70  | V    Q  |         |         |         |
  0+20       0.3004     16.05  |   V    Q|         |         |         |
  0+25       0.4219     17.64  |     V   Q         |         |         |
  0+30       0.5607     20.15  |       V |Q        |         |         |
  0+35       0.7180     22.84  |         |V Q      |         |         |
  0+40       0.8983     26.18  |         |   Q     |         |         |
  0+45       1.1181     31.92  |         |      VQ |         |         |
  0+50       1.4816     52.78  |         |         |  V      Q         |
  0+55       1.9580     69.18  |         |         |         V        Q|
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR212
   1+ 0       2.2176     37.69  |         |         |Q        |    V    |
   1+ 5       2.3773     23.20  |         |  Q      |         |      V  |
   1+10       2.4493     10.45  |    Q    |         |         |       V |
   1+15       2.4898      5.88  |  Q      |         |         |        V|
   1+20       2.5135      3.44  |Q        |         |         |        V|
   1+25       2.5281      2.13  |Q        |         |         |        V|
   1+30       2.5320      0.57  Q         |         |         |        V|
   1+35       2.5335      0.22  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR232.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 0.800(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 0.800(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.125	(0.134)	0.012	0.112
2	0.17	1.30	0.125	(0.134)	0.012	0.112
3	0.25	1.10	0.106	(0.134)	0.011	0.095
4	0.33	1.50	0.144	(0.134)	0.014	0.130
5	0.42	1.50	0.144	(0.134)	0.014	0.130
6	0.50	1.80	0.173	(0.134)	0.017	0.155
7	0.58	1.50	0.144	(0.134)	0.014	0.130
8	0.67	1.80	0.173	(0.134)	0.017	0.155
9	0.75	1.80	0.173	(0.134)	0.017	0.155
10	0.83	1.50	0.144	(0.134)	0.014	0.130
11	0.92	1.60	0.154	(0.134)	0.015	0.138
12	1.00	1.80	0.173	(0.134)	0.017	0.155
13	1.08	2.20	0.211	(0.134)	0.021	0.190
14	1.17	2.20	0.211	(0.134)	0.021	0.190
15	1.25	2.20	0.211	(0.134)	0.021	0.190
16	1.33	2.00	0.192	(0.134)	0.019	0.173
17	1.42	2.60	0.250	(0.134)	0.025	0.225
18	1.50	2.70	0.259	(0.134)	0.026	0.233
19	1.58	2.40	0.230	(0.134)	0.023	0.207
20	1.67	2.70	0.259	(0.134)	0.026	0.233
21	1.75	3.30	0.317	(0.134)	0.032	0.285
22	1.83	3.10	0.298	(0.134)	0.030	0.268
23	1.92	2.90	0.278	(0.134)	0.028	0.250
24	2.00	3.00	0.288	(0.134)	0.029	0.259
25	2.08	3.10	0.298	(0.134)	0.030	0.268
26	2.17	4.20	0.403	(0.134)	0.040	0.363
27	2.25	5.00	0.480	(0.134)	0.048	0.432
28	2.33	3.50	0.336	(0.134)	0.034	0.302
29	2.42	6.80	0.653	(0.134)	0.065	0.587
30	2.50	7.30	0.701	(0.134)	0.070	0.631
31	2.58	8.20	0.787	(0.134)	0.079	0.708
32	2.67	5.90	0.566	(0.134)	0.057	0.510
33	2.75	2.00	0.192	(0.134)	0.019	0.173
34	2.83	1.80	0.173	(0.134)	0.017	0.155
35	2.92	1.80	0.173	(0.134)	0.017	0.155
36	3.00	0.60	0.058	(0.134)	0.006	0.052
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.6

Flood volume = Effective rainfall 0.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.0(Ac.Ft)
Total soil loss = 0.08(In)
Total soil loss = 0.447(Ac.Ft)
Total rainfall = 0.80(In)
Flood volume = 175321.1 Cubic Feet
Total soil loss = 19480.1 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR232

Peak flow rate of this hydrograph = 41.603(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 12.5 25.0 37.5 50.0
0+ 5	0.0108	1.57	VQ
0+10	0.0470	5.26	V Q
0+15	0.0895	6.16	V Q
0+20	0.1349	6.59	V Q
0+25	0.1889	7.84	V Q
0+30	0.2485	8.66	V Q
0+35	0.3131	9.38	V Q
0+40	0.3772	9.30	V Q
0+45	0.4464	10.05	V Q
0+50	0.5148	9.92	V Q
0+55	0.5789	9.31	V Q
1+ 0	0.6452	9.62	VQ
1+ 5	0.7187	10.68	VQ
1+10	0.8012	11.97	V Q
1+15	0.8866	12.40	VQ
1+20	0.9717	12.35	Q
1+25	1.0585	12.61	Q
1+30	1.1573	14.35	Q
1+35	1.2590	14.76	QV
1+40	1.3594	14.58	Q V
1+45	1.4699	16.04	Q V
1+50	1.5920	17.74	QV
1+55	1.7130	17.56	Q V
2+ 0	1.8318	17.25	Q V
2+ 5	1.9527	17.56	Q V
2+10	2.0850	19.22	Q V
2+15	2.2465	23.44	Q V
2+20	2.4181	24.93	Q V
2+25	2.5957	25.78	Q V
2+30	2.8370	35.03	Q
2+35	3.1137	40.18	V Q
2+40	3.4002	41.60	Q
2+45	3.6207	32.01	Q V
2+50	3.7552	19.53	Q V
2+55	3.8591	15.08	Q V
3+ 0	3.9403	11.80	Q V
3+ 5	3.9851	6.50	Q V
3+10	4.0058	3.01	Q V
3+15	4.0161	1.48	Q V
3+20	4.0208	0.68	Q V
3+25	4.0233	0.37	Q V
3+30	4.0245	0.18	Q V
3+35	4.0248	0.04	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR262.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.150(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.150(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.069	(0.134)	0.007	0.062
2	0.17	0.60	0.083	(0.134)	0.008	0.075
3	0.25	0.60	0.083	(0.134)	0.008	0.075
4	0.33	0.60	0.083	(0.134)	0.008	0.075
5	0.42	0.60	0.083	(0.134)	0.008	0.075
6	0.50	0.70	0.097	(0.134)	0.010	0.087
7	0.58	0.70	0.097	(0.134)	0.010	0.087
8	0.67	0.70	0.097	(0.134)	0.010	0.087
9	0.75	0.70	0.097	(0.134)	0.010	0.087
10	0.83	0.70	0.097	(0.134)	0.010	0.087
11	0.92	0.70	0.097	(0.134)	0.010	0.087
12	1.00	0.80	0.110	(0.134)	0.011	0.099
13	1.08	0.80	0.110	(0.134)	0.011	0.099
14	1.17	0.80	0.110	(0.134)	0.011	0.099
15	1.25	0.80	0.110	(0.134)	0.011	0.099
16	1.33	0.80	0.110	(0.134)	0.011	0.099
17	1.42	0.80	0.110	(0.134)	0.011	0.099
18	1.50	0.80	0.110	(0.134)	0.011	0.099
19	1.58	0.80	0.110	(0.134)	0.011	0.099
20	1.67	0.80	0.110	(0.134)	0.011	0.099
21	1.75	0.80	0.110	(0.134)	0.011	0.099
22	1.83	0.80	0.110	(0.134)	0.011	0.099
23	1.92	0.80	0.110	(0.134)	0.011	0.099
24	2.00	0.90	0.124	(0.134)	0.012	0.112
25	2.08	0.80	0.110	(0.134)	0.011	0.099
26	2.17	0.90	0.124	(0.134)	0.012	0.112
27	2.25	0.90	0.124	(0.134)	0.012	0.112
28	2.33	0.90	0.124	(0.134)	0.012	0.112
29	2.42	0.90	0.124	(0.134)	0.012	0.112
30	2.50	0.90	0.124	(0.134)	0.012	0.112
31	2.58	0.90	0.124	(0.134)	0.012	0.112
32	2.67	0.90	0.124	(0.134)	0.012	0.112
33	2.75	1.00	0.138	(0.134)	0.014	0.124
34	2.83	1.00	0.138	(0.134)	0.014	0.124
35	2.92	1.00	0.138	(0.134)	0.014	0.124
36	3.00	1.00	0.138	(0.134)	0.014	0.124
37	3.08	1.00	0.138	(0.134)	0.014	0.124
38	3.17	1.10	0.152	(0.134)	0.015	0.137
39	3.25	1.10	0.152	(0.134)	0.015	0.137
40	3.33	1.10	0.152	(0.134)	0.015	0.137
41	3.42	1.20	0.166	(0.134)	0.017	0.149
42	3.50	1.30	0.179	(0.134)	0.018	0.161
43	3.58	1.40	0.193	(0.134)	0.019	0.174
44	3.67	1.40	0.193	(0.134)	0.019	0.174
45	3.75	1.50	0.207	(0.134)	0.021	0.186
46	3.83	1.50	0.207	(0.134)	0.021	0.186

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.221	(0.134)	0.022	0.199
48	4.00	1.60	0.221	(0.134)	0.022	0.199
49	4.08	1.70	0.235	(0.134)	0.023	0.211
50	4.17	1.80	0.248	(0.134)	0.025	0.224
51	4.25	1.90	0.262	(0.134)	0.026	0.236
52	4.33	2.00	0.276	(0.134)	0.028	0.248
53	4.42	2.10	0.290	(0.134)	0.029	0.261
54	4.50	2.10	0.290	(0.134)	0.029	0.261
55	4.58	2.20	0.304	(0.134)	0.030	0.273
56	4.67	2.30	0.317	(0.134)	0.032	0.286
57	4.75	2.40	0.331	(0.134)	0.033	0.298
58	4.83	2.40	0.331	(0.134)	0.033	0.298
59	4.92	2.50	0.345	(0.134)	0.034	0.310
60	5.00	2.60	0.359	(0.134)	0.036	0.323
61	5.08	3.10	0.428	(0.134)	0.043	0.385
62	5.17	3.60	0.497	(0.134)	0.050	0.447
63	5.25	3.90	0.538	(0.134)	0.054	0.484
64	5.33	4.20	0.579	(0.134)	0.058	0.522
65	5.42	4.70	0.648	(0.134)	0.065	0.584
66	5.50	5.60	0.773	(0.134)	0.077	0.695
67	5.58	1.90	0.262	(0.134)	0.026	0.236
68	5.67	0.90	0.124	(0.134)	0.012	0.112
69	5.75	0.60	0.083	(0.134)	0.008	0.075
70	5.83	0.50	0.069	(0.134)	0.007	0.062
71	5.92	0.30	0.041	(0.134)	0.004	0.037
72	6.00	0.20	0.028	(0.134)	0.003	0.025

(Loss Rate Not Used)

Sum = 100.0 Sum = 12.4

Flood volume = Effective rainfall 1.03(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.8(Ac.Ft)
Total soil loss = 0.11(In)
Total soil loss = 0.643(Ac.Ft)
Total rainfall = 1.15(In)
Flood volume = 252039.9 Cubic Feet
Total soil loss = 28004.4 Cubic Feet

Peak flow rate of this hydrograph = 38.797(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0060	0.87	Q				
0+10	0.0272	3.08	V Q				
0+15	0.0556	4.12	V Q				
0+20	0.0868	4.53	V Q				
0+25	0.1195	4.75	V Q				
0+30	0.1544	5.06	V Q				
0+35	0.1926	5.55	V Q				
0+40	0.2321	5.74	V Q				
0+45	0.2721	5.81	V Q				
0+50	0.3123	5.84	V Q				
0+55	0.3527	5.86	V Q				
1+ 0	0.3943	6.04	V Q				
1+ 5	0.4388	6.46	V Q				
1+10	0.4842	6.59	V Q				
1+15	0.5300	6.65	V Q				
1+20	0.5759	6.68	V Q				
1+25	0.6221	6.70	V Q				
1+30	0.6683	6.71	V Q				
1+35	0.7146	6.72	V Q				
1+40	0.7609	6.72	VQ				
1+45	0.8072	6.72	VQ				
1+50	0.8535	6.72	VQ				
1+55	0.8997	6.72	Q				
2+ 0	0.9472	6.89	Q				
2+ 5	0.9963	7.13	VQ				
2+10	1.0447	7.02	Q				
2+15	1.0954	7.36	Q				
2+20	1.1468	7.46	Q				
2+25	1.1985	7.51	QV				
2+30	1.2503	7.53	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR262

2+35	1.3023	7.55	Q V
2+40	1.3543	7.55	Q V
2+45	1.4076	7.73	Q V
2+50	1.4637	8.14	Q V
2+55	1.5206	8.27	Q V
3+ 0	1.5780	8.33	Q V
3+ 5	1.6355	8.36	Q V
3+10	1.6944	8.55	Q V
3+15	1.7562	8.97	Q V
3+20	1.8190	9.11	Q V
3+25	1.8833	9.34	Q V
3+30	1.9518	9.95	Q V
3+35	2.0254	10.68	Q V
3+40	2.1031	11.29	Q V
3+45	2.1836	11.69	Q V
3+50	2.2677	12.20	Q V
3+55	2.3542	12.57	Q V
4+ 0	2.4443	13.08	Q V
4+ 5	2.5368	13.43	Q V
4+10	2.6339	14.10	Q V
4+15	2.7362	14.85	Q V
4+20	2.8439	15.65	Q V
4+25	2.9573	16.46	Q V
4+30	3.0751	17.11	Q V
4+35	3.1959	17.53	Q V
4+40	3.3216	18.25	Q V
4+45	3.4526	19.03	Q V
4+50	3.5881	19.67	Q V
4+55	3.7263	20.08	Q V
5+ 0	3.8694	20.78	Q V
5+ 5	4.0226	22.24	Q V
5+10	4.1974	25.38	Q V
5+15	4.3950	28.69	Q V
5+20	4.6113	31.41	Q
5+25	4.8479	34.36	VQ
5+30	5.1151	38.80	V Q
5+35	5.3709	37.14	Q
5+40	5.5222	21.97	Q V
5+45	5.6154	13.53	Q V
5+50	5.6787	9.20	Q V
5+55	5.7241	6.59	Q V
6+ 0	5.7544	4.39	Q V
6+ 5	5.7727	2.66	Q V
6+10	5.7796	1.01	Q V
6+15	5.7829	0.48	Q V
6+20	5.7846	0.25	Q V
6+25	5.7855	0.13	Q V
6+30	5.7859	0.06	Q V
6+35	5.7860	0.02	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR2242.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 2-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 2.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 1.750(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 1.750(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
			Sum = 100.000	Sum= 67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.014	(0.238)	0.001	0.013
2	0.17	0.07	0.014	(0.237)	0.001	0.013
3	0.25	0.07	0.014	(0.236)	0.001	0.013
4	0.33	0.10	0.021	(0.235)	0.002	0.019
5	0.42	0.10	0.021	(0.234)	0.002	0.019
6	0.50	0.10	0.021	(0.233)	0.002	0.019
7	0.58	0.10	0.021	(0.232)	0.002	0.019
8	0.67	0.10	0.021	(0.231)	0.002	0.019
9	0.75	0.10	0.021	(0.230)	0.002	0.019
10	0.83	0.13	0.028	(0.230)	0.003	0.025
11	0.92	0.13	0.028	(0.229)	0.003	0.025
12	1.00	0.13	0.028	(0.228)	0.003	0.025
13	1.08	0.10	0.021	(0.227)	0.002	0.019
14	1.17	0.10	0.021	(0.226)	0.002	0.019
15	1.25	0.10	0.021	(0.225)	0.002	0.019
16	1.33	0.10	0.021	(0.224)	0.002	0.019
17	1.42	0.10	0.021	(0.223)	0.002	0.019
18	1.50	0.10	0.021	(0.222)	0.002	0.019
19	1.58	0.10	0.021	(0.222)	0.002	0.019
20	1.67	0.10	0.021	(0.221)	0.002	0.019
21	1.75	0.10	0.021	(0.220)	0.002	0.019
22	1.83	0.13	0.028	(0.219)	0.003	0.025
23	1.92	0.13	0.028	(0.218)	0.003	0.025
24	2.00	0.13	0.028	(0.217)	0.003	0.025
25	2.08	0.13	0.028	(0.216)	0.003	0.025
26	2.17	0.13	0.028	(0.215)	0.003	0.025
27	2.25	0.13	0.028	(0.214)	0.003	0.025
28	2.33	0.13	0.028	(0.214)	0.003	0.025
29	2.42	0.13	0.028	(0.213)	0.003	0.025
30	2.50	0.13	0.028	(0.212)	0.003	0.025
31	2.58	0.17	0.035	(0.211)	0.003	0.031
32	2.67	0.17	0.035	(0.210)	0.003	0.031
33	2.75	0.17	0.035	(0.209)	0.003	0.031
34	2.83	0.17	0.035	(0.208)	0.003	0.031
35	2.92	0.17	0.035	(0.208)	0.003	0.031
36	3.00	0.17	0.035	(0.207)	0.003	0.031
37	3.08	0.17	0.035	(0.206)	0.003	0.031
38	3.17	0.17	0.035	(0.205)	0.003	0.031
39	3.25	0.17	0.035	(0.204)	0.003	0.031
40	3.33	0.17	0.035	(0.203)	0.003	0.031
41	3.42	0.17	0.035	(0.202)	0.003	0.031
42	3.50	0.17	0.035	(0.202)	0.003	0.031
43	3.58	0.17	0.035	(0.201)	0.003	0.031
44	3.67	0.17	0.035	(0.200)	0.003	0.031
45	3.75	0.17	0.035	(0.199)	0.003	0.031
46	3.83	0.20	0.042	(0.198)	0.004	0.038

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.042	(0.197)	0.004	0.038
48	4.00	0.20	0.042	(0.197)	0.004	0.038
49	4.08	0.20	0.042	(0.196)	0.004	0.038
50	4.17	0.20	0.042	(0.195)	0.004	0.038
51	4.25	0.20	0.042	(0.194)	0.004	0.038
52	4.33	0.23	0.049	(0.193)	0.005	0.044
53	4.42	0.23	0.049	(0.192)	0.005	0.044
54	4.50	0.23	0.049	(0.192)	0.005	0.044
55	4.58	0.23	0.049	(0.191)	0.005	0.044
56	4.67	0.23	0.049	(0.190)	0.005	0.044
57	4.75	0.23	0.049	(0.189)	0.005	0.044
58	4.83	0.27	0.056	(0.188)	0.006	0.050
59	4.92	0.27	0.056	(0.187)	0.006	0.050
60	5.00	0.27	0.056	(0.187)	0.006	0.050
61	5.08	0.20	0.042	(0.186)	0.004	0.038
62	5.17	0.20	0.042	(0.185)	0.004	0.038
63	5.25	0.20	0.042	(0.184)	0.004	0.038
64	5.33	0.23	0.049	(0.183)	0.005	0.044
65	5.42	0.23	0.049	(0.183)	0.005	0.044
66	5.50	0.23	0.049	(0.182)	0.005	0.044
67	5.58	0.27	0.056	(0.181)	0.006	0.050
68	5.67	0.27	0.056	(0.180)	0.006	0.050
69	5.75	0.27	0.056	(0.179)	0.006	0.050
70	5.83	0.27	0.056	(0.179)	0.006	0.050
71	5.92	0.27	0.056	(0.178)	0.006	0.050
72	6.00	0.27	0.056	(0.177)	0.006	0.050
73	6.08	0.30	0.063	(0.176)	0.006	0.057
74	6.17	0.30	0.063	(0.175)	0.006	0.057
75	6.25	0.30	0.063	(0.175)	0.006	0.057
76	6.33	0.30	0.063	(0.174)	0.006	0.057
77	6.42	0.30	0.063	(0.173)	0.006	0.057
78	6.50	0.30	0.063	(0.172)	0.006	0.057
79	6.58	0.33	0.070	(0.172)	0.007	0.063
80	6.67	0.33	0.070	(0.171)	0.007	0.063
81	6.75	0.33	0.070	(0.170)	0.007	0.063
82	6.83	0.33	0.070	(0.169)	0.007	0.063
83	6.92	0.33	0.070	(0.169)	0.007	0.063
84	7.00	0.33	0.070	(0.168)	0.007	0.063
85	7.08	0.33	0.070	(0.167)	0.007	0.063
86	7.17	0.33	0.070	(0.166)	0.007	0.063
87	7.25	0.33	0.070	(0.165)	0.007	0.063
88	7.33	0.37	0.077	(0.165)	0.008	0.069
89	7.42	0.37	0.077	(0.164)	0.008	0.069
90	7.50	0.37	0.077	(0.163)	0.008	0.069
91	7.58	0.40	0.084	(0.162)	0.008	0.076
92	7.67	0.40	0.084	(0.162)	0.008	0.076
93	7.75	0.40	0.084	(0.161)	0.008	0.076
94	7.83	0.43	0.091	(0.160)	0.009	0.082
95	7.92	0.43	0.091	(0.159)	0.009	0.082
96	8.00	0.43	0.091	(0.159)	0.009	0.082
97	8.08	0.50	0.105	(0.158)	0.010	0.094
98	8.17	0.50	0.105	(0.157)	0.010	0.094
99	8.25	0.50	0.105	(0.157)	0.010	0.094
100	8.33	0.50	0.105	(0.156)	0.010	0.094
101	8.42	0.50	0.105	(0.155)	0.010	0.094
102	8.50	0.50	0.105	(0.154)	0.010	0.094
103	8.58	0.53	0.112	(0.154)	0.011	0.101
104	8.67	0.53	0.112	(0.153)	0.011	0.101
105	8.75	0.53	0.112	(0.152)	0.011	0.101
106	8.83	0.57	0.119	(0.151)	0.012	0.107
107	8.92	0.57	0.119	(0.151)	0.012	0.107
108	9.00	0.57	0.119	(0.150)	0.012	0.107
109	9.08	0.63	0.133	(0.149)	0.013	0.120
110	9.17	0.63	0.133	(0.149)	0.013	0.120
111	9.25	0.63	0.133	(0.148)	0.013	0.120
112	9.33	0.67	0.140	(0.147)	0.014	0.126
113	9.42	0.67	0.140	(0.147)	0.014	0.126
114	9.50	0.67	0.140	(0.146)	0.014	0.126
115	9.58	0.70	0.147	(0.145)	0.015	0.132
116	9.67	0.70	0.147	(0.144)	0.015	0.132
117	9.75	0.70	0.147	(0.144)	0.015	0.132
118	9.83	0.73	0.154	(0.143)	0.015	0.139
119	9.92	0.73	0.154	(0.142)	0.015	0.139
120	10.00	0.73	0.154	(0.142)	0.015	0.139
121	10.08	0.50	0.105	(0.141)	0.010	0.094
122	10.17	0.50	0.105	(0.140)	0.010	0.094
123	10.25	0.50	0.105	(0.140)	0.010	0.094

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.105	(0.139)	0.010	0.094
125	10.42	0.50	0.105	(0.138)	0.010	0.094
126	10.50	0.50	0.105	(0.138)	0.010	0.094
127	10.58	0.67	0.140	(0.137)	0.014	0.126
128	10.67	0.67	0.140	(0.136)	0.014	0.126
129	10.75	0.67	0.140	(0.136)	0.014	0.126
130	10.83	0.67	0.140	(0.135)	0.014	0.126
131	10.92	0.67	0.140	(0.134)	0.014	0.126
132	11.00	0.67	0.140	(0.134)	0.014	0.126
133	11.08	0.63	0.133	(0.133)	0.013	0.120
134	11.17	0.63	0.133	(0.132)	0.013	0.120
135	11.25	0.63	0.133	(0.132)	0.013	0.120
136	11.33	0.63	0.133	(0.131)	0.013	0.120
137	11.42	0.63	0.133	(0.130)	0.013	0.120
138	11.50	0.63	0.133	(0.130)	0.013	0.120
139	11.58	0.57	0.119	(0.129)	0.012	0.107
140	11.67	0.57	0.119	(0.128)	0.012	0.107
141	11.75	0.57	0.119	(0.128)	0.012	0.107
142	11.83	0.60	0.126	(0.127)	0.013	0.113
143	11.92	0.60	0.126	(0.126)	0.013	0.113
144	12.00	0.60	0.126	(0.126)	0.013	0.113
145	12.08	0.83	0.175	(0.125)	0.017	0.157
146	12.17	0.83	0.175	(0.125)	0.017	0.157
147	12.25	0.83	0.175	(0.124)	0.017	0.157
148	12.33	0.87	0.182	(0.123)	0.018	0.164
149	12.42	0.87	0.182	(0.123)	0.018	0.164
150	12.50	0.87	0.182	(0.122)	0.018	0.164
151	12.58	0.93	0.196	(0.121)	0.020	0.176
152	12.67	0.93	0.196	(0.121)	0.020	0.176
153	12.75	0.93	0.196	(0.120)	0.020	0.176
154	12.83	0.97	0.203	(0.120)	0.020	0.183
155	12.92	0.97	0.203	(0.119)	0.020	0.183
156	13.00	0.97	0.203	(0.118)	0.020	0.183
157	13.08	1.13	0.238	(0.118)	0.024	0.214
158	13.17	1.13	0.238	(0.117)	0.024	0.214
159	13.25	1.13	0.238	(0.117)	0.024	0.214
160	13.33	1.13	0.238	(0.116)	0.024	0.214
161	13.42	1.13	0.238	(0.115)	0.024	0.214
162	13.50	1.13	0.238	(0.115)	0.024	0.214
163	13.58	0.77	0.161	(0.114)	0.016	0.145
164	13.67	0.77	0.161	(0.114)	0.016	0.145
165	13.75	0.77	0.161	(0.113)	0.016	0.145
166	13.83	0.77	0.161	(0.113)	0.016	0.145
167	13.92	0.77	0.161	(0.112)	0.016	0.145
168	14.00	0.77	0.161	(0.111)	0.016	0.145
169	14.08	0.90	0.189	(0.111)	0.019	0.170
170	14.17	0.90	0.189	(0.110)	0.019	0.170
171	14.25	0.90	0.189	(0.110)	0.019	0.170
172	14.33	0.87	0.182	(0.109)	0.018	0.164
173	14.42	0.87	0.182	(0.109)	0.018	0.164
174	14.50	0.87	0.182	(0.108)	0.018	0.164
175	14.58	0.87	0.182	(0.107)	0.018	0.164
176	14.67	0.87	0.182	(0.107)	0.018	0.164
177	14.75	0.87	0.182	(0.106)	0.018	0.164
178	14.83	0.83	0.175	(0.106)	0.017	0.157
179	14.92	0.83	0.175	(0.105)	0.017	0.157
180	15.00	0.83	0.175	(0.105)	0.017	0.157
181	15.08	0.80	0.168	(0.104)	0.017	0.151
182	15.17	0.80	0.168	(0.104)	0.017	0.151
183	15.25	0.80	0.168	(0.103)	0.017	0.151
184	15.33	0.77	0.161	(0.103)	0.016	0.145
185	15.42	0.77	0.161	(0.102)	0.016	0.145
186	15.50	0.77	0.161	(0.102)	0.016	0.145
187	15.58	0.63	0.133	(0.101)	0.013	0.120
188	15.67	0.63	0.133	(0.101)	0.013	0.120
189	15.75	0.63	0.133	(0.100)	0.013	0.120
190	15.83	0.63	0.133	(0.100)	0.013	0.120
191	15.92	0.63	0.133	(0.099)	0.013	0.120
192	16.00	0.63	0.133	(0.099)	0.013	0.120
193	16.08	0.13	0.028	(0.098)	0.003	0.025
194	16.17	0.13	0.028	(0.098)	0.003	0.025
195	16.25	0.13	0.028	(0.097)	0.003	0.025
196	16.33	0.13	0.028	(0.097)	0.003	0.025
197	16.42	0.13	0.028	(0.096)	0.003	0.025
198	16.50	0.13	0.028	(0.096)	0.003	0.025
199	16.58	0.10	0.021	(0.095)	0.002	0.019
200	16.67	0.10	0.021	(0.095)	0.002	0.019

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.021	(0.094)	0.002	0.019
202	16.83	0.10	0.021	(0.094)	0.002	0.019
203	16.92	0.10	0.021	(0.093)	0.002	0.019
204	17.00	0.10	0.021	(0.093)	0.002	0.019
205	17.08	0.17	0.035	(0.092)	0.003	0.031
206	17.17	0.17	0.035	(0.092)	0.003	0.031
207	17.25	0.17	0.035	(0.091)	0.003	0.031
208	17.33	0.17	0.035	(0.091)	0.003	0.031
209	17.42	0.17	0.035	(0.090)	0.003	0.031
210	17.50	0.17	0.035	(0.090)	0.003	0.031
211	17.58	0.17	0.035	(0.089)	0.003	0.031
212	17.67	0.17	0.035	(0.089)	0.003	0.031
213	17.75	0.17	0.035	(0.089)	0.003	0.031
214	17.83	0.13	0.028	(0.088)	0.003	0.025
215	17.92	0.13	0.028	(0.088)	0.003	0.025
216	18.00	0.13	0.028	(0.087)	0.003	0.025
217	18.08	0.13	0.028	(0.087)	0.003	0.025
218	18.17	0.13	0.028	(0.086)	0.003	0.025
219	18.25	0.13	0.028	(0.086)	0.003	0.025
220	18.33	0.13	0.028	(0.086)	0.003	0.025
221	18.42	0.13	0.028	(0.085)	0.003	0.025
222	18.50	0.13	0.028	(0.085)	0.003	0.025
223	18.58	0.10	0.021	(0.084)	0.002	0.019
224	18.67	0.10	0.021	(0.084)	0.002	0.019
225	18.75	0.10	0.021	(0.084)	0.002	0.019
226	18.83	0.07	0.014	(0.083)	0.001	0.013
227	18.92	0.07	0.014	(0.083)	0.001	0.013
228	19.00	0.07	0.014	(0.082)	0.001	0.013
229	19.08	0.10	0.021	(0.082)	0.002	0.019
230	19.17	0.10	0.021	(0.082)	0.002	0.019
231	19.25	0.10	0.021	(0.081)	0.002	0.019
232	19.33	0.13	0.028	(0.081)	0.003	0.025
233	19.42	0.13	0.028	(0.080)	0.003	0.025
234	19.50	0.13	0.028	(0.080)	0.003	0.025
235	19.58	0.10	0.021	(0.080)	0.002	0.019
236	19.67	0.10	0.021	(0.079)	0.002	0.019
237	19.75	0.10	0.021	(0.079)	0.002	0.019
238	19.83	0.07	0.014	(0.079)	0.001	0.013
239	19.92	0.07	0.014	(0.078)	0.001	0.013
240	20.00	0.07	0.014	(0.078)	0.001	0.013
241	20.08	0.10	0.021	(0.078)	0.002	0.019
242	20.17	0.10	0.021	(0.077)	0.002	0.019
243	20.25	0.10	0.021	(0.077)	0.002	0.019
244	20.33	0.10	0.021	(0.077)	0.002	0.019
245	20.42	0.10	0.021	(0.076)	0.002	0.019
246	20.50	0.10	0.021	(0.076)	0.002	0.019
247	20.58	0.10	0.021	(0.076)	0.002	0.019
248	20.67	0.10	0.021	(0.075)	0.002	0.019
249	20.75	0.10	0.021	(0.075)	0.002	0.019
250	20.83	0.07	0.014	(0.075)	0.001	0.013
251	20.92	0.07	0.014	(0.074)	0.001	0.013
252	21.00	0.07	0.014	(0.074)	0.001	0.013
253	21.08	0.10	0.021	(0.074)	0.002	0.019
254	21.17	0.10	0.021	(0.073)	0.002	0.019
255	21.25	0.10	0.021	(0.073)	0.002	0.019
256	21.33	0.07	0.014	(0.073)	0.001	0.013
257	21.42	0.07	0.014	(0.073)	0.001	0.013
258	21.50	0.07	0.014	(0.072)	0.001	0.013
259	21.58	0.10	0.021	(0.072)	0.002	0.019
260	21.67	0.10	0.021	(0.072)	0.002	0.019
261	21.75	0.10	0.021	(0.072)	0.002	0.019
262	21.83	0.07	0.014	(0.071)	0.001	0.013
263	21.92	0.07	0.014	(0.071)	0.001	0.013
264	22.00	0.07	0.014	(0.071)	0.001	0.013
265	22.08	0.10	0.021	(0.071)	0.002	0.019
266	22.17	0.10	0.021	(0.070)	0.002	0.019
267	22.25	0.10	0.021	(0.070)	0.002	0.019
268	22.33	0.07	0.014	(0.070)	0.001	0.013
269	22.42	0.07	0.014	(0.070)	0.001	0.013
270	22.50	0.07	0.014	(0.069)	0.001	0.013
271	22.58	0.07	0.014	(0.069)	0.001	0.013
272	22.67	0.07	0.014	(0.069)	0.001	0.013
273	22.75	0.07	0.014	(0.069)	0.001	0.013
274	22.83	0.07	0.014	(0.069)	0.001	0.013
275	22.92	0.07	0.014	(0.069)	0.001	0.013
276	23.00	0.07	0.014	(0.068)	0.001	0.013
277	23.08	0.07	0.014	(0.068)	0.001	0.013

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.014	(	0.068)	0.001	0.013
279	23.25	0.07	0.014	(	0.068)	0.001	0.013
280	23.33	0.07	0.014	(	0.068)	0.001	0.013
281	23.42	0.07	0.014	(	0.068)	0.001	0.013
282	23.50	0.07	0.014	(	0.068)	0.001	0.013
283	23.58	0.07	0.014	(	0.067)	0.001	0.013
284	23.67	0.07	0.014	(	0.067)	0.001	0.013
285	23.75	0.07	0.014	(	0.067)	0.001	0.013
286	23.83	0.07	0.014	(	0.067)	0.001	0.013
287	23.92	0.07	0.014	(	0.067)	0.001	0.013
288	24.00	0.07	0.014	(	0.067)	0.001	0.013

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.9

Flood volume = Effective rainfall 1.57(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.8(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.978(Ac.Ft)
Total rainfall = 1.75(In)
Flood volume = 383577.2 Cubic Feet
Total soil loss = 42619.7 Cubic Feet

Peak flow rate of this hydrograph = 14.434(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0012	0.18	Q				
0+10	0.0053	0.59	VQ				
0+15	0.0102	0.72	VQ				
0+20	0.0162	0.86	VQ				
0+25	0.0238	1.10	V Q				
0+30	0.0320	1.19	V Q				
0+35	0.0404	1.23	V Q				
0+40	0.0491	1.26	V Q				
0+45	0.0578	1.27	V Q				
0+50	0.0672	1.36	V Q				
0+55	0.0780	1.57	V Q				
1+ 0	0.0893	1.64	V Q				
1+ 5	0.1002	1.58	V Q				
1+10	0.1098	1.39	V Q				
1+15	0.1189	1.33	V Q				
1+20	0.1280	1.31	V Q				
1+25	0.1369	1.30	V Q				
1+30	0.1458	1.29	V Q				
1+35	0.1547	1.28	V Q				
1+40	0.1635	1.28	V Q				
1+45	0.1723	1.28	V Q				
1+50	0.1817	1.37	V Q				
1+55	0.1925	1.57	V Q				
2+ 0	0.2038	1.64	V Q				
2+ 5	0.2153	1.67	V Q				
2+10	0.2269	1.68	|V Q				
2+15	0.2385	1.69	|V Q				
2+20	0.2502	1.70	|V Q				
2+25	0.2620	1.70	|V Q				
2+30	0.2737	1.70	|V Q				
2+35	0.2861	1.79	|V Q				
2+40	0.2998	2.00	|V Q				
2+45	0.3140	2.06	|V Q				
2+50	0.3285	2.09	|V Q				
2+55	0.3430	2.11	|V Q				
3+ 0	0.3576	2.12	|V Q				
3+ 5	0.3722	2.13	|V Q				
3+10	0.3869	2.13	|V Q				
3+15	0.4016	2.13	|V Q				
3+20	0.4163	2.13	|V Q				
3+25	0.4309	2.13	|V Q				
3+30	0.4456	2.13	| V Q				
3+35	0.4603	2.13	| V Q				
3+40	0.4750	2.13	| V Q				
3+45	0.4896	2.13	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	0.5049	2.22	V Q				
3+55	0.5216	2.43	V Q				
4+ 0	0.5388	2.49	V Q				
4+ 5	0.5561	2.52	V Q				
4+10	0.5736	2.54	V Q				
4+15	0.5911	2.55	V Q				
4+20	0.6093	2.64	V Q				
4+25	0.6290	2.85	V Q				
4+30	0.6490	2.92	V Q				
4+35	0.6693	2.95	V Q				
4+40	0.6897	2.96	V Q				
4+45	0.7102	2.97	V Q				
4+50	0.7313	3.07	V Q				
4+55	0.7539	3.28	V Q				
5+ 0	0.7769	3.34	V Q				
5+ 5	0.7989	3.20	V Q				
5+10	0.8182	2.80	V Q				
5+15	0.8366	2.68	V Q				
5+20	0.8553	2.72	V Q				
5+25	0.8753	2.90	V Q				
5+30	0.8955	2.94	VQ				
5+35	0.9165	3.04	V Q				
5+40	0.9389	3.26	V Q				
5+45	0.9619	3.33	V Q				
5+50	0.9850	3.37	V Q				
5+55	1.0084	3.39	V Q				
6+ 0	1.0318	3.40	V Q				
6+ 5	1.0558	3.49	V Q				
6+10	1.0813	3.70	V Q				
6+15	1.1073	3.77	V Q				
6+20	1.1335	3.80	V Q				
6+25	1.1597	3.81	V Q				
6+30	1.1861	3.82	V Q				
6+35	1.2130	3.92	V Q				
6+40	1.2415	4.13	V Q				
6+45	1.2704	4.19	V Q				
6+50	1.2995	4.22	V Q				
6+55	1.3287	4.24	V Q				
7+ 0	1.3580	4.25	V Q				
7+ 5	1.3873	4.26	V Q				
7+10	1.4166	4.26	V Q				
7+15	1.4460	4.26	V Q				
7+20	1.4759	4.35	V Q				
7+25	1.5073	4.56	V Q				
7+30	1.5392	4.62	V Q				
7+35	1.5718	4.74	V Q				
7+40	1.6060	4.96	V Q				
7+45	1.6406	5.04	V Q				
7+50	1.6762	5.16	V Q				
7+55	1.7133	5.39	V Q				
8+ 0	1.7509	5.46	V Q				
8+ 5	1.7900	5.67	V Q				
8+10	1.8320	6.11	V Q				
8+15	1.8751	6.25	V Q				
8+20	1.9185	6.31	V Q				
8+25	1.9623	6.35	V Q				
8+30	2.0061	6.37	V Q				
8+35	2.0507	6.47	V Q				
8+40	2.0968	6.69	V Q				
8+45	2.1433	6.75	V Q				
8+50	2.1906	6.87	V Q				
8+55	2.2394	7.09	V Q				
9+ 0	2.2888	7.17	V Q				
9+ 5	2.3396	7.38	V Q				
9+10	2.3934	7.81	V Q				
9+15	2.4482	7.95	V Q				
9+20	2.5040	8.10	V Q				
9+25	2.5615	8.35	V Q				
9+30	2.6196	8.43	V Q				
9+35	2.6786	8.56	V Q				
9+40	2.7391	8.80	V Q				
9+45	2.8002	8.87	V Q				
9+50	2.8622	8.99	V Q				
9+55	2.9257	9.22	V Q				
10+ 0	2.9898	9.30	V Q				
10+ 5	3.0498	8.72	V Q				
10+10	3.1000	7.29	Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

10+15	3.1472	6.85	|	| QV	|	|	|	|
10+20	3.1930	6.65	|	| QV	|	|	|	|
10+25	3.2381	6.55	|	| QV	|	|	|	|
10+30	3.2826	6.47	|	| Q V	|	|	|	|
10+35	3.3299	6.87	|	| Q V	|	|	|	|
10+40	3.3841	7.87	|	| Q	|	|	|	|
10+45	3.4405	8.19	|	| VQ	|	|	|	|
10+50	3.4979	8.33	|	| VQ	|	|	|	|
10+55	3.5559	8.42	|	| Q	|	|	|	|
11+ 0	3.6142	8.47	|	| Q	|	|	|	|
11+ 5	3.6721	8.41	|	| Q	|	|	|	|
11+10	3.7288	8.23	|	| Q	|	|	|	|
11+15	3.7850	8.16	|	| QV	|	|	|	|
11+20	3.8411	8.14	|	| QV	|	|	|	|
11+25	3.8970	8.12	|	| QV	|	|	|	|
11+30	3.9528	8.11	|	| QV	|	|	|	|
11+35	4.0074	7.93	|	| Q V	|	|	|	|
11+40	4.0591	7.51	|	| Q V	|	|	|	|
11+45	4.1099	7.38	|	| Q V	|	|	|	|
11+50	4.1610	7.41	|	| Q V	|	|	|	|
11+55	4.2132	7.58	|	| Q V|	|	|	|
12+ 0	4.2657	7.63	|	| Q V|	|	|	|
12+ 5	4.3226	8.26	|	| Q V|	|	|	|
12+10	4.3895	9.72	|	| Q|	|	|	|
12+15	4.4596	10.17	|	| Q	|	|	|
12+20	4.5317	10.47	|	| Q	|	|	|
12+25	4.6061	10.80	|	| VQ	|	|	|
12+30	4.6814	10.93	|	| |Q	|	|	|
12+35	4.7584	11.18	|	| |VQ	|	|	|
12+40	4.8387	11.65	|	| |V Q	|	|	|
12+45	4.9198	11.79	|	| | VQ	|	|	|
12+50	5.0021	11.94	|	| | VQ	|	|	|
12+55	5.0860	12.19	|	| | VQ	|	|	|
13+ 0	5.1705	12.27	|	| | VQ	|	|	|
13+ 5	5.2583	12.75	|	| | V Q	|	|	|
13+10	5.3535	13.81	|	| | V Q	|	|	|
13+15	5.4509	14.14	|	| | V Q	|	|	|
13+20	5.5493	14.30	|	| | V Q	|	|	|
13+25	5.6484	14.38	|	| | V Q	|	|	|
13+30	5.7478	14.43	|	| | V Q	|	|	|
13+35	5.8407	13.50	|	| | Q	|	|	|
13+40	5.9182	11.24	|	| | Q V	|	|	|
13+45	5.9908	10.54	|	| |Q V	|	|	|
13+50	6.0611	10.22	|	| Q V	|	|	|
13+55	6.1303	10.04	|	| Q V	|	|	|
14+ 0	6.1987	9.93	|	| Q| V	|	|	|
14+ 5	6.2690	10.21	|	| Q V	|	|	|
14+10	6.3446	10.98	|	| |Q V	|	|	|
14+15	6.4220	11.24	|	| | Q V|	|	|	|
14+20	6.4996	11.27	|	| | Q V|	|	|	|
14+25	6.5763	11.12	|	| | Q V|	|	|	|
14+30	6.6527	11.10	|	| | Q V	|	|	|
14+35	6.7292	11.10	|	| | Q V	|	|	|
14+40	6.8056	11.10	|	| | Q V	|	|	|
14+45	6.8820	11.09	|	| | Q |V	|	|	|
14+50	6.9578	11.00	|	| |Q |V	|	|	|
14+55	7.0321	10.79	|	| |Q |V	|	|	|
15+ 0	7.1059	10.72	|	| |Q | V	|	|	|
15+ 5	7.1789	10.61	|	| |Q | V	|	|	|
15+10	7.2504	10.38	|	| Q | V	|	|	|
15+15	7.3214	10.31	|	| Q | V	|	|	|
15+20	7.3916	10.18	|	| Q | V	|	|	|
15+25	7.4601	9.96	|	| Q| | V	|	|	|
15+30	7.5282	9.88	|	| Q| | V	|	|	|
15+35	7.5936	9.49	|	| Q | | V	|	|	|
15+40	7.6531	8.64	|	| Q | | V	|	|	|
15+45	7.7108	8.38	|	| Q | | V	|	|	|
15+50	7.7676	8.25	|	| Q | | V	|	|	|
15+55	7.8240	8.18	|	| Q | | V	|	|	|
16+ 0	7.8801	8.14	|	| Q | | V	|	|	|
16+ 5	7.9269	6.80	|	| Q | | V	|	|	|
16+10	7.9522	3.67	|	Q | | V	|	|	|
16+15	7.9708	2.71	|	Q | | V	|	|	|
16+20	7.9865	2.27	|	Q | | V	|	|	|
16+25	8.0005	2.03	|	Q | | V	|	|	|
16+30	8.0134	1.88	|	Q | | V	|	|	|
16+35	8.0251	1.69	|	Q | | V	|	|	|

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	8.0348	1.41	Q				V
16+45	8.0441	1.35	Q				V
16+50	8.0531	1.32	Q				V
16+55	8.0621	1.30	Q				V
17+ 0	8.0710	1.29	Q				V
17+ 5	8.0810	1.46	Q				V
17+10	8.0939	1.87	Q				V
17+15	8.1076	2.00	Q				V
17+20	8.1218	2.06	Q				V
17+25	8.1362	2.09	Q				V
17+30	8.1507	2.11	Q				V
17+35	8.1653	2.12	Q				V
17+40	8.1800	2.13	Q				V
17+45	8.1946	2.13	Q				V
17+50	8.2087	2.04	Q				V
17+55	8.2214	1.84	Q				V
18+ 0	8.2336	1.77	Q				V
18+ 5	8.2456	1.74	Q				V
18+10	8.2575	1.73	Q				V
18+15	8.2693	1.72	Q				V
18+20	8.2810	1.71	Q				V
18+25	8.2928	1.70	Q				V
18+30	8.3045	1.70	Q				V
18+35	8.3157	1.62	Q				V
18+40	8.3254	1.41	Q				V
18+45	8.3346	1.35	Q				V
18+50	8.3431	1.23	Q				V
18+55	8.3500	1.01	Q				V
19+ 0	8.3564	0.93	Q				V
19+ 5	8.3632	0.98	Q				V
19+10	8.3713	1.17	Q				V
19+15	8.3797	1.22	Q				V
19+20	8.3889	1.33	Q				V
19+25	8.3996	1.55	Q				V
19+30	8.4108	1.63	Q				V
19+35	8.4216	1.57	Q				V
19+40	8.4312	1.39	Q				V
19+45	8.4403	1.33	Q				V
19+50	8.4488	1.22	Q				V
19+55	8.4557	1.01	Q				V
20+ 0	8.4621	0.93	Q				V
20+ 5	8.4689	0.98	Q				V
20+10	8.4769	1.17	Q				V
20+15	8.4854	1.22	Q				V
20+20	8.4939	1.25	Q				V
20+25	8.5026	1.26	Q				V
20+30	8.5113	1.27	Q				V
20+35	8.5201	1.27	Q				V
20+40	8.5289	1.28	Q				V
20+45	8.5377	1.28	Q				V
20+50	8.5459	1.19	Q				V
20+55	8.5527	0.98	Q				V
21+ 0	8.5590	0.92	Q				V
21+ 5	8.5657	0.98	Q				V
21+10	8.5738	1.17	Q				V
21+15	8.5822	1.22	Q				V
21+20	8.5902	1.16	Q				V
21+25	8.5968	0.96	Q				V
21+30	8.6031	0.91	Q				V
21+35	8.6098	0.97	Q				V
21+40	8.6178	1.17	Q				V
21+45	8.6262	1.22	Q				V
21+50	8.6342	1.16	Q				V
21+55	8.6408	0.96	Q				V
22+ 0	8.6471	0.91	Q				V
22+ 5	8.6538	0.97	Q				V
22+10	8.6619	1.17	Q				V
22+15	8.6703	1.22	Q				V
22+20	8.6782	1.16	Q				V
22+25	8.6849	0.96	Q				V
22+30	8.6911	0.91	Q				V
22+35	8.6972	0.89	Q				V
22+40	8.7032	0.87	Q				V
22+45	8.7092	0.86	Q				V
22+50	8.7151	0.86	Q				V
22+55	8.7210	0.85	Q				V
23+ 0	8.7268	0.85	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR224

23+ 5	8.7327	0.85	|Q	|	|	|	V|
23+10	8.7386	0.85	|Q	|	|	|	V|
23+15	8.7444	0.85	|Q	|	|	|	V|
23+20	8.7503	0.85	|Q	|	|	|	V|
23+25	8.7562	0.85	|Q	|	|	|	V|
23+30	8.7621	0.85	|Q	|	|	|	V|
23+35	8.7679	0.85	|Q	|	|	|	V|
23+40	8.7738	0.85	|Q	|	|	|	V|
23+45	8.7797	0.85	|Q	|	|	|	V|
23+50	8.7855	0.85	|Q	|	|	|	V|
23+55	8.7914	0.85	|Q	|	|	|	V|
24+ 0	8.7973	0.85	|Q	|	|	|	V|
24+ 5	8.8019	0.68	|Q	|	|	|	V|
24+10	8.8037	0.26	Q	|	|	|	V|
24+15	8.8047	0.13	Q	|	|	|	V|
24+20	8.8052	0.08	Q	|	|	|	V|
24+25	8.8055	0.04	Q	|	|	|	V|
24+30	8.8056	0.02	Q	|	|	|	V|
24+35	8.8057	0.01	Q	|	|	|	V

3828PR515

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR515.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.664(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.664(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.334	(0.134)	0.033	0.301
2	0.17	4.30	0.342	(0.134)	0.034	0.308
3	0.25	5.00	0.398	(0.134)	0.040	0.358
4	0.33	5.00	0.398	(0.134)	0.040	0.358
5	0.42	5.80	0.462	(0.134)	0.046	0.416
6	0.50	6.50	0.518	(0.134)	0.052	0.466
7	0.58	7.40	0.589	(0.134)	0.059	0.530
8	0.67	8.60	0.685	(0.134)	0.068	0.616
9	0.75	12.30	0.979	(0.134)	0.098	0.881
10	0.83	29.10	2.317	0.134	(0.232)	2.183
11	0.92	6.80	0.541	(0.134)	0.054	0.487
12	1.00	5.00	0.398	(0.134)	0.040	0.358
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	7.3

Flood volume = Effective rainfall 0.61(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 3.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.326(Ac.Ft)
Total rainfall = 0.66(In)
Flood volume = 147441.8 Cubic Feet
Total soil loss = 14181.9 Cubic Feet

Peak flow rate of this hydrograph = 93.308(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	25.0	50.0	75.0	100.0
0+ 5	0.0289	4.20	VQ				
0+10	0.1268	14.21	V Q				
0+15	0.2521	18.20	V Q				
0+20	0.3989	21.31	V Q				
0+25	0.5602	23.43	V Q				
0+30	0.7445	26.76	V Q				
0+35	0.9534	30.33	VQ				
0+40	1.1928	34.76	QV				
0+45	1.4847	42.38	QV				
0+50	1.9716	70.70	V Q				
0+55	2.6142	93.31	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR515
   1+ 0       2.9620     50.50  |         |         Q         |    V    |
   1+ 5       3.1755     31.00  |         | Q       |         |      V  |
   1+10       3.2719     13.99  |    Q    |         |         |       V |
   1+15       3.3262      7.88  |  Q      |         |         |        V|
   1+20       3.3579      4.61  |Q        |         |         |        V|
   1+25       3.3776      2.86  |Q        |         |         |        V|
   1+30       3.3828      0.75  Q         |         |         |        V|
   1+35       3.3848      0.29  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR535.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.048(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.048(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.163	(0.134)	0.016	0.147
2	0.17	1.30	0.163	(0.134)	0.016	0.147
3	0.25	1.10	0.138	(0.134)	0.014	0.124
4	0.33	1.50	0.189	(0.134)	0.019	0.170
5	0.42	1.50	0.189	(0.134)	0.019	0.170
6	0.50	1.80	0.226	(0.134)	0.023	0.204
7	0.58	1.50	0.189	(0.134)	0.019	0.170
8	0.67	1.80	0.226	(0.134)	0.023	0.204
9	0.75	1.80	0.226	(0.134)	0.023	0.204
10	0.83	1.50	0.189	(0.134)	0.019	0.170
11	0.92	1.60	0.201	(0.134)	0.020	0.181
12	1.00	1.80	0.226	(0.134)	0.023	0.204
13	1.08	2.20	0.277	(0.134)	0.028	0.249
14	1.17	2.20	0.277	(0.134)	0.028	0.249
15	1.25	2.20	0.277	(0.134)	0.028	0.249
16	1.33	2.00	0.252	(0.134)	0.025	0.226
17	1.42	2.60	0.327	(0.134)	0.033	0.294
18	1.50	2.70	0.340	(0.134)	0.034	0.306
19	1.58	2.40	0.302	(0.134)	0.030	0.272
20	1.67	2.70	0.340	(0.134)	0.034	0.306
21	1.75	3.30	0.415	(0.134)	0.041	0.373
22	1.83	3.10	0.390	(0.134)	0.039	0.351
23	1.92	2.90	0.365	(0.134)	0.036	0.328
24	2.00	3.00	0.377	(0.134)	0.038	0.340
25	2.08	3.10	0.390	(0.134)	0.039	0.351
26	2.17	4.20	0.528	(0.134)	0.053	0.475
27	2.25	5.00	0.629	(0.134)	0.063	0.566
28	2.33	3.50	0.440	(0.134)	0.044	0.396
29	2.42	6.80	0.855	(0.134)	0.086	0.770
30	2.50	7.30	0.918	(0.134)	0.092	0.826
31	2.58	8.20	1.031	(0.134)	0.103	0.928
32	2.67	5.90	0.742	(0.134)	0.074	0.668
33	2.75	2.00	0.252	(0.134)	0.025	0.226
34	2.83	1.80	0.226	(0.134)	0.023	0.204
35	2.92	1.80	0.226	(0.134)	0.023	0.204
36	3.00	0.60	0.075	(0.134)	0.008	0.068
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	11.3

Flood volume = Effective rainfall 0.94(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 5.3(Ac.Ft)
Total soil loss = 0.10(In)
Total soil loss = 0.586(Ac.Ft)
Total rainfall = 1.05(In)
Flood volume = 229731.5 Cubic Feet
Total soil loss = 25525.7 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR535

Peak flow rate of this hydrograph = 54.514(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 15.0 30.0 45.0 60.0
0+ 5	0.0141	2.05	VQ
0+10	0.0616	6.90	V Q
0+15	0.1172	8.07	V Q
0+20	0.1767	8.64	V Q
0+25	0.2475	10.28	V Q
0+30	0.3257	11.35	V Q
0+35	0.4103	12.29	V Q
0+40	0.4943	12.19	V Q
0+45	0.5850	13.17	V Q
0+50	0.6745	13.00	V Q
0+55	0.7585	12.20	V Q
1+ 0	0.8454	12.61	V Q
1+ 5	0.9418	14.00	V Q
1+10	1.0498	15.69	V Q
1+15	1.1617	16.25	V Q
1+20	1.2732	16.19	VQ
1+25	1.3870	16.53	VQ
1+30	1.5165	18.80	VQ
1+35	1.6497	19.34	Q
1+40	1.7813	19.11	QV
1+45	1.9260	21.02	Q
1+50	2.0861	23.24	Q
1+55	2.2446	23.01	Q V
2+ 0	2.4002	22.60	Q V
2+ 5	2.5587	23.00	Q V
2+10	2.7321	25.18	Q V
2+15	2.9436	30.71	Q V
2+20	3.1686	32.67	Q V
2+25	3.4013	33.78	Q V
2+30	3.7174	45.90	V Q
2+35	4.0800	52.65	V Q
2+40	4.4554	54.51	V Q
2+45	4.7444	41.95	Q V
2+50	4.9206	25.60	Q V
2+55	5.0567	19.76	Q V
3+ 0	5.1632	15.46	Q V
3+ 5	5.2219	8.52	Q V
3+10	5.2490	3.95	Q V
3+15	5.2624	1.94	Q V
3+20	5.2686	0.90	Q V
3+25	5.2719	0.48	Q V
3+30	5.2735	0.23	Q V
3+35	5.2739	0.06	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR565.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.466(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.466(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.088	(0.134)	0.009	0.079
2	0.17	0.60	0.106	(0.134)	0.011	0.095
3	0.25	0.60	0.106	(0.134)	0.011	0.095
4	0.33	0.60	0.106	(0.134)	0.011	0.095
5	0.42	0.60	0.106	(0.134)	0.011	0.095
6	0.50	0.70	0.123	(0.134)	0.012	0.111
7	0.58	0.70	0.123	(0.134)	0.012	0.111
8	0.67	0.70	0.123	(0.134)	0.012	0.111
9	0.75	0.70	0.123	(0.134)	0.012	0.111
10	0.83	0.70	0.123	(0.134)	0.012	0.111
11	0.92	0.70	0.123	(0.134)	0.012	0.111
12	1.00	0.80	0.141	(0.134)	0.014	0.127
13	1.08	0.80	0.141	(0.134)	0.014	0.127
14	1.17	0.80	0.141	(0.134)	0.014	0.127
15	1.25	0.80	0.141	(0.134)	0.014	0.127
16	1.33	0.80	0.141	(0.134)	0.014	0.127
17	1.42	0.80	0.141	(0.134)	0.014	0.127
18	1.50	0.80	0.141	(0.134)	0.014	0.127
19	1.58	0.80	0.141	(0.134)	0.014	0.127
20	1.67	0.80	0.141	(0.134)	0.014	0.127
21	1.75	0.80	0.141	(0.134)	0.014	0.127
22	1.83	0.80	0.141	(0.134)	0.014	0.127
23	1.92	0.80	0.141	(0.134)	0.014	0.127
24	2.00	0.90	0.158	(0.134)	0.016	0.142
25	2.08	0.80	0.141	(0.134)	0.014	0.127
26	2.17	0.90	0.158	(0.134)	0.016	0.142
27	2.25	0.90	0.158	(0.134)	0.016	0.142
28	2.33	0.90	0.158	(0.134)	0.016	0.142
29	2.42	0.90	0.158	(0.134)	0.016	0.142
30	2.50	0.90	0.158	(0.134)	0.016	0.142
31	2.58	0.90	0.158	(0.134)	0.016	0.142
32	2.67	0.90	0.158	(0.134)	0.016	0.142
33	2.75	1.00	0.176	(0.134)	0.018	0.158
34	2.83	1.00	0.176	(0.134)	0.018	0.158
35	2.92	1.00	0.176	(0.134)	0.018	0.158
36	3.00	1.00	0.176	(0.134)	0.018	0.158
37	3.08	1.00	0.176	(0.134)	0.018	0.158
38	3.17	1.10	0.193	(0.134)	0.019	0.174
39	3.25	1.10	0.193	(0.134)	0.019	0.174
40	3.33	1.10	0.193	(0.134)	0.019	0.174
41	3.42	1.20	0.211	(0.134)	0.021	0.190
42	3.50	1.30	0.229	(0.134)	0.023	0.206
43	3.58	1.40	0.246	(0.134)	0.025	0.222
44	3.67	1.40	0.246	(0.134)	0.025	0.222
45	3.75	1.50	0.264	(0.134)	0.026	0.237
46	3.83	1.50	0.264	(0.134)	0.026	0.237

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.281	(0.134)	0.028	0.253
48	4.00	1.60	0.281	(0.134)	0.028	0.253
49	4.08	1.70	0.299	(0.134)	0.030	0.269
50	4.17	1.80	0.317	(0.134)	0.032	0.285
51	4.25	1.90	0.334	(0.134)	0.033	0.301
52	4.33	2.00	0.352	(0.134)	0.035	0.317
53	4.42	2.10	0.369	(0.134)	0.037	0.332
54	4.50	2.10	0.369	(0.134)	0.037	0.332
55	4.58	2.20	0.387	(0.134)	0.039	0.348
56	4.67	2.30	0.405	(0.134)	0.040	0.364
57	4.75	2.40	0.422	(0.134)	0.042	0.380
58	4.83	2.40	0.422	(0.134)	0.042	0.380
59	4.92	2.50	0.440	(0.134)	0.044	0.396
60	5.00	2.60	0.457	(0.134)	0.046	0.412
61	5.08	3.10	0.545	(0.134)	0.055	0.491
62	5.17	3.60	0.633	(0.134)	0.063	0.570
63	5.25	3.90	0.686	(0.134)	0.069	0.617
64	5.33	4.20	0.739	(0.134)	0.074	0.665
65	5.42	4.70	0.827	(0.134)	0.083	0.744
66	5.50	5.60	0.985	(0.134)	0.099	0.887
67	5.58	1.90	0.334	(0.134)	0.033	0.301
68	5.67	0.90	0.158	(0.134)	0.016	0.142
69	5.75	0.60	0.106	(0.134)	0.011	0.095
70	5.83	0.50	0.088	(0.134)	0.009	0.079
71	5.92	0.30	0.053	(0.134)	0.005	0.047
72	6.00	0.20	0.035	(0.134)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 15.8

Flood volume = Effective rainfall 1.32(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 7.4(Ac.Ft)
Total soil loss = 0.15(In)
Total soil loss = 0.820(Ac.Ft)
Total rainfall = 1.47(In)
Flood volume = 321340.5 Cubic Feet
Total soil loss = 35704.5 Cubic Feet

Peak flow rate of this hydrograph = 49.464(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	12.5	25.0	37.5	50.0
0+ 5	0.0076	1.10	Q				
0+10	0.0347	3.93	V Q				
0+15	0.0709	5.26	V Q				
0+20	0.1107	5.78	V Q				
0+25	0.1524	6.06	V Q				
0+30	0.1968	6.45	V Q				
0+35	0.2456	7.08	V Q				
0+40	0.2960	7.32	V Q				
0+45	0.3469	7.40	V Q				
0+50	0.3982	7.44	V Q				
0+55	0.4496	7.47	V Q				
1+ 0	0.5027	7.71	V Q				
1+ 5	0.5595	8.24	V Q				
1+10	0.6173	8.40	V Q				
1+15	0.6757	8.47	V Q				
1+20	0.7343	8.51	V Q				
1+25	0.7931	8.54	V Q				
1+30	0.8521	8.56	V Q				
1+35	0.9111	8.57	V Q				
1+40	0.9701	8.57	VQ				
1+45	1.0291	8.57	VQ				
1+50	1.0881	8.57	VQ				
1+55	1.1471	8.57	Q				
2+ 0	1.2077	8.79	VQ				
2+ 5	1.2703	9.09	VQ				
2+10	1.3319	8.95	Q				
2+15	1.3965	9.38	Q				
2+20	1.4621	9.51	Q				
2+25	1.5280	9.57	QV				
2+30	1.5941	9.60	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR565

2+35	1.6604	9.62	Q V
2+40	1.7267	9.63	Q V
2+45	1.7946	9.86	Q V
2+50	1.8661	10.38	Q V
2+55	1.9387	10.54	Q V
3+ 0	2.0118	10.62	Q V
3+ 5	2.0852	10.66	Q V
3+10	2.1603	10.90	Q V
3+15	2.2391	11.44	Q V
3+20	2.3191	11.61	Q V
3+25	2.4011	11.91	Q V
3+30	2.4885	12.69	Q V
3+35	2.5823	13.62	Q V
3+40	2.6814	14.39	Q V
3+45	2.7840	14.90	Q V
3+50	2.8912	15.56	Q V
3+55	3.0015	16.02	Q V
4+ 0	3.1163	16.67	Q V
4+ 5	3.2343	17.12	Q V
4+10	3.3581	17.98	Q V
4+15	3.4885	18.94	Q V
4+20	3.6259	19.95	Q V
4+25	3.7704	20.98	Q V
4+30	3.9207	21.82	Q V
4+35	4.0746	22.35	Q V
4+40	4.2348	23.27	Q V
4+45	4.4020	24.26	Q V
4+50	4.5746	25.07	Q V
4+55	4.7509	25.60	Q V
5+ 0	4.9334	26.49	Q V
5+ 5	5.1287	28.36	Q V
5+10	5.3515	32.36	Q V
5+15	5.6034	36.57	QV
5+20	5.8792	40.05	VQ
5+25	6.1809	43.81	V Q
5+30	6.5216	49.46	V Q
5+35	6.8477	47.35	Q
5+40	7.0406	28.01	Q V
5+45	7.1594	17.24	Q V
5+50	7.2402	11.73	Q V
5+55	7.2980	8.40	Q V
6+ 0	7.3366	5.59	Q V
6+ 5	7.3599	3.39	Q V
6+10	7.3688	1.29	Q V
6+15	7.3730	0.61	Q V
6+20	7.3752	0.32	Q V
6+25	7.3763	0.16	Q V
6+30	7.3768	0.07	Q V
6+35	7.3770	0.03	Q V

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR5245.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 5-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 5.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.394(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.394(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-1	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	36.0	0.706	0.900	0.134	1.000	0.134
					Sum (F) =	0.134

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.134
Minimum soil loss rate ((In/Hr)) = 0.067
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.019	(0.238)	0.002	0.017
2	0.17	0.07	0.019	(0.237)	0.002	0.017
3	0.25	0.07	0.019	(0.236)	0.002	0.017
4	0.33	0.10	0.029	(0.235)	0.003	0.026
5	0.42	0.10	0.029	(0.234)	0.003	0.026
6	0.50	0.10	0.029	(0.233)	0.003	0.026
7	0.58	0.10	0.029	(0.232)	0.003	0.026
8	0.67	0.10	0.029	(0.231)	0.003	0.026
9	0.75	0.10	0.029	(0.230)	0.003	0.026
10	0.83	0.13	0.038	(0.230)	0.004	0.034
11	0.92	0.13	0.038	(0.229)	0.004	0.034
12	1.00	0.13	0.038	(0.228)	0.004	0.034
13	1.08	0.10	0.029	(0.227)	0.003	0.026
14	1.17	0.10	0.029	(0.226)	0.003	0.026
15	1.25	0.10	0.029	(0.225)	0.003	0.026
16	1.33	0.10	0.029	(0.224)	0.003	0.026
17	1.42	0.10	0.029	(0.223)	0.003	0.026
18	1.50	0.10	0.029	(0.222)	0.003	0.026
19	1.58	0.10	0.029	(0.222)	0.003	0.026
20	1.67	0.10	0.029	(0.221)	0.003	0.026
21	1.75	0.10	0.029	(0.220)	0.003	0.026
22	1.83	0.13	0.038	(0.219)	0.004	0.034
23	1.92	0.13	0.038	(0.218)	0.004	0.034
24	2.00	0.13	0.038	(0.217)	0.004	0.034
25	2.08	0.13	0.038	(0.216)	0.004	0.034
26	2.17	0.13	0.038	(0.215)	0.004	0.034
27	2.25	0.13	0.038	(0.214)	0.004	0.034
28	2.33	0.13	0.038	(0.214)	0.004	0.034
29	2.42	0.13	0.038	(0.213)	0.004	0.034
30	2.50	0.13	0.038	(0.212)	0.004	0.034
31	2.58	0.17	0.048	(0.211)	0.005	0.043
32	2.67	0.17	0.048	(0.210)	0.005	0.043
33	2.75	0.17	0.048	(0.209)	0.005	0.043
34	2.83	0.17	0.048	(0.208)	0.005	0.043
35	2.92	0.17	0.048	(0.208)	0.005	0.043
36	3.00	0.17	0.048	(0.207)	0.005	0.043
37	3.08	0.17	0.048	(0.206)	0.005	0.043
38	3.17	0.17	0.048	(0.205)	0.005	0.043
39	3.25	0.17	0.048	(0.204)	0.005	0.043
40	3.33	0.17	0.048	(0.203)	0.005	0.043
41	3.42	0.17	0.048	(0.202)	0.005	0.043
42	3.50	0.17	0.048	(0.202)	0.005	0.043
43	3.58	0.17	0.048	(0.201)	0.005	0.043
44	3.67	0.17	0.048	(0.200)	0.005	0.043
45	3.75	0.17	0.048	(0.199)	0.005	0.043
46	3.83	0.20	0.057	(0.198)	0.006	0.052

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.057	(0.197)	0.006	0.052
48	4.00	0.20	0.057	(0.197)	0.006	0.052
49	4.08	0.20	0.057	(0.196)	0.006	0.052
50	4.17	0.20	0.057	(0.195)	0.006	0.052
51	4.25	0.20	0.057	(0.194)	0.006	0.052
52	4.33	0.23	0.067	(0.193)	0.007	0.060
53	4.42	0.23	0.067	(0.192)	0.007	0.060
54	4.50	0.23	0.067	(0.192)	0.007	0.060
55	4.58	0.23	0.067	(0.191)	0.007	0.060
56	4.67	0.23	0.067	(0.190)	0.007	0.060
57	4.75	0.23	0.067	(0.189)	0.007	0.060
58	4.83	0.27	0.077	(0.188)	0.008	0.069
59	4.92	0.27	0.077	(0.187)	0.008	0.069
60	5.00	0.27	0.077	(0.187)	0.008	0.069
61	5.08	0.20	0.057	(0.186)	0.006	0.052
62	5.17	0.20	0.057	(0.185)	0.006	0.052
63	5.25	0.20	0.057	(0.184)	0.006	0.052
64	5.33	0.23	0.067	(0.183)	0.007	0.060
65	5.42	0.23	0.067	(0.183)	0.007	0.060
66	5.50	0.23	0.067	(0.182)	0.007	0.060
67	5.58	0.27	0.077	(0.181)	0.008	0.069
68	5.67	0.27	0.077	(0.180)	0.008	0.069
69	5.75	0.27	0.077	(0.179)	0.008	0.069
70	5.83	0.27	0.077	(0.179)	0.008	0.069
71	5.92	0.27	0.077	(0.178)	0.008	0.069
72	6.00	0.27	0.077	(0.177)	0.008	0.069
73	6.08	0.30	0.086	(0.176)	0.009	0.078
74	6.17	0.30	0.086	(0.175)	0.009	0.078
75	6.25	0.30	0.086	(0.175)	0.009	0.078
76	6.33	0.30	0.086	(0.174)	0.009	0.078
77	6.42	0.30	0.086	(0.173)	0.009	0.078
78	6.50	0.30	0.086	(0.172)	0.009	0.078
79	6.58	0.33	0.096	(0.172)	0.010	0.086
80	6.67	0.33	0.096	(0.171)	0.010	0.086
81	6.75	0.33	0.096	(0.170)	0.010	0.086
82	6.83	0.33	0.096	(0.169)	0.010	0.086
83	6.92	0.33	0.096	(0.169)	0.010	0.086
84	7.00	0.33	0.096	(0.168)	0.010	0.086
85	7.08	0.33	0.096	(0.167)	0.010	0.086
86	7.17	0.33	0.096	(0.166)	0.010	0.086
87	7.25	0.33	0.096	(0.165)	0.010	0.086
88	7.33	0.37	0.105	(0.165)	0.011	0.095
89	7.42	0.37	0.105	(0.164)	0.011	0.095
90	7.50	0.37	0.105	(0.163)	0.011	0.095
91	7.58	0.40	0.115	(0.162)	0.011	0.103
92	7.67	0.40	0.115	(0.162)	0.011	0.103
93	7.75	0.40	0.115	(0.161)	0.011	0.103
94	7.83	0.43	0.124	(0.160)	0.012	0.112
95	7.92	0.43	0.124	(0.159)	0.012	0.112
96	8.00	0.43	0.124	(0.159)	0.012	0.112
97	8.08	0.50	0.144	(0.158)	0.014	0.129
98	8.17	0.50	0.144	(0.157)	0.014	0.129
99	8.25	0.50	0.144	(0.157)	0.014	0.129
100	8.33	0.50	0.144	(0.156)	0.014	0.129
101	8.42	0.50	0.144	(0.155)	0.014	0.129
102	8.50	0.50	0.144	(0.154)	0.014	0.129
103	8.58	0.53	0.153	(0.154)	0.015	0.138
104	8.67	0.53	0.153	(0.153)	0.015	0.138
105	8.75	0.53	0.153	(0.152)	0.015	0.138
106	8.83	0.57	0.163	(0.151)	0.016	0.147
107	8.92	0.57	0.163	(0.151)	0.016	0.147
108	9.00	0.57	0.163	(0.150)	0.016	0.147
109	9.08	0.63	0.182	(0.149)	0.018	0.164
110	9.17	0.63	0.182	(0.149)	0.018	0.164
111	9.25	0.63	0.182	(0.148)	0.018	0.164
112	9.33	0.67	0.192	(0.147)	0.019	0.172
113	9.42	0.67	0.192	(0.147)	0.019	0.172
114	9.50	0.67	0.192	(0.146)	0.019	0.172
115	9.58	0.70	0.201	(0.145)	0.020	0.181
116	9.67	0.70	0.201	(0.144)	0.020	0.181
117	9.75	0.70	0.201	(0.144)	0.020	0.181
118	9.83	0.73	0.211	(0.143)	0.021	0.190
119	9.92	0.73	0.211	(0.142)	0.021	0.190
120	10.00	0.73	0.211	(0.142)	0.021	0.190
121	10.08	0.50	0.144	(0.141)	0.014	0.129
122	10.17	0.50	0.144	(0.140)	0.014	0.129
123	10.25	0.50	0.144	(0.140)	0.014	0.129

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.144	(0.139)	0.014	0.129
125	10.42	0.50	0.144	(0.138)	0.014	0.129
126	10.50	0.50	0.144	(0.138)	0.014	0.129
127	10.58	0.67	0.192	(0.137)	0.019	0.172
128	10.67	0.67	0.192	(0.136)	0.019	0.172
129	10.75	0.67	0.192	(0.136)	0.019	0.172
130	10.83	0.67	0.192	(0.135)	0.019	0.172
131	10.92	0.67	0.192	(0.134)	0.019	0.172
132	11.00	0.67	0.192	(0.134)	0.019	0.172
133	11.08	0.63	0.182	(0.133)	0.018	0.164
134	11.17	0.63	0.182	(0.132)	0.018	0.164
135	11.25	0.63	0.182	(0.132)	0.018	0.164
136	11.33	0.63	0.182	(0.131)	0.018	0.164
137	11.42	0.63	0.182	(0.130)	0.018	0.164
138	11.50	0.63	0.182	(0.130)	0.018	0.164
139	11.58	0.57	0.163	(0.129)	0.016	0.147
140	11.67	0.57	0.163	(0.128)	0.016	0.147
141	11.75	0.57	0.163	(0.128)	0.016	0.147
142	11.83	0.60	0.172	(0.127)	0.017	0.155
143	11.92	0.60	0.172	(0.126)	0.017	0.155
144	12.00	0.60	0.172	(0.126)	0.017	0.155
145	12.08	0.83	0.239	(0.125)	0.024	0.215
146	12.17	0.83	0.239	(0.125)	0.024	0.215
147	12.25	0.83	0.239	(0.124)	0.024	0.215
148	12.33	0.87	0.249	(0.123)	0.025	0.224
149	12.42	0.87	0.249	(0.123)	0.025	0.224
150	12.50	0.87	0.249	(0.122)	0.025	0.224
151	12.58	0.93	0.268	(0.121)	0.027	0.241
152	12.67	0.93	0.268	(0.121)	0.027	0.241
153	12.75	0.93	0.268	(0.120)	0.027	0.241
154	12.83	0.97	0.278	(0.120)	0.028	0.250
155	12.92	0.97	0.278	(0.119)	0.028	0.250
156	13.00	0.97	0.278	(0.118)	0.028	0.250
157	13.08	1.13	0.326	(0.118)	0.033	0.293
158	13.17	1.13	0.326	(0.117)	0.033	0.293
159	13.25	1.13	0.326	(0.117)	0.033	0.293
160	13.33	1.13	0.326	(0.116)	0.033	0.293
161	13.42	1.13	0.326	(0.115)	0.033	0.293
162	13.50	1.13	0.326	(0.115)	0.033	0.293
163	13.58	0.77	0.220	(0.114)	0.022	0.198
164	13.67	0.77	0.220	(0.114)	0.022	0.198
165	13.75	0.77	0.220	(0.113)	0.022	0.198
166	13.83	0.77	0.220	(0.113)	0.022	0.198
167	13.92	0.77	0.220	(0.112)	0.022	0.198
168	14.00	0.77	0.220	(0.111)	0.022	0.198
169	14.08	0.90	0.259	(0.111)	0.026	0.233
170	14.17	0.90	0.259	(0.110)	0.026	0.233
171	14.25	0.90	0.259	(0.110)	0.026	0.233
172	14.33	0.87	0.249	(0.109)	0.025	0.224
173	14.42	0.87	0.249	(0.109)	0.025	0.224
174	14.50	0.87	0.249	(0.108)	0.025	0.224
175	14.58	0.87	0.249	(0.107)	0.025	0.224
176	14.67	0.87	0.249	(0.107)	0.025	0.224
177	14.75	0.87	0.249	(0.106)	0.025	0.224
178	14.83	0.83	0.239	(0.106)	0.024	0.215
179	14.92	0.83	0.239	(0.105)	0.024	0.215
180	15.00	0.83	0.239	(0.105)	0.024	0.215
181	15.08	0.80	0.230	(0.104)	0.023	0.207
182	15.17	0.80	0.230	(0.104)	0.023	0.207
183	15.25	0.80	0.230	(0.103)	0.023	0.207
184	15.33	0.77	0.220	(0.103)	0.022	0.198
185	15.42	0.77	0.220	(0.102)	0.022	0.198
186	15.50	0.77	0.220	(0.102)	0.022	0.198
187	15.58	0.63	0.182	(0.101)	0.018	0.164
188	15.67	0.63	0.182	(0.101)	0.018	0.164
189	15.75	0.63	0.182	(0.100)	0.018	0.164
190	15.83	0.63	0.182	(0.100)	0.018	0.164
191	15.92	0.63	0.182	(0.099)	0.018	0.164
192	16.00	0.63	0.182	(0.099)	0.018	0.164
193	16.08	0.13	0.038	(0.098)	0.004	0.034
194	16.17	0.13	0.038	(0.098)	0.004	0.034
195	16.25	0.13	0.038	(0.097)	0.004	0.034
196	16.33	0.13	0.038	(0.097)	0.004	0.034
197	16.42	0.13	0.038	(0.096)	0.004	0.034
198	16.50	0.13	0.038	(0.096)	0.004	0.034
199	16.58	0.10	0.029	(0.095)	0.003	0.026
200	16.67	0.10	0.029	(0.095)	0.003	0.026

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.029	(0.094)	0.003	0.026
202	16.83	0.10	0.029	(0.094)	0.003	0.026
203	16.92	0.10	0.029	(0.093)	0.003	0.026
204	17.00	0.10	0.029	(0.093)	0.003	0.026
205	17.08	0.17	0.048	(0.092)	0.005	0.043
206	17.17	0.17	0.048	(0.092)	0.005	0.043
207	17.25	0.17	0.048	(0.091)	0.005	0.043
208	17.33	0.17	0.048	(0.091)	0.005	0.043
209	17.42	0.17	0.048	(0.090)	0.005	0.043
210	17.50	0.17	0.048	(0.090)	0.005	0.043
211	17.58	0.17	0.048	(0.089)	0.005	0.043
212	17.67	0.17	0.048	(0.089)	0.005	0.043
213	17.75	0.17	0.048	(0.089)	0.005	0.043
214	17.83	0.13	0.038	(0.088)	0.004	0.034
215	17.92	0.13	0.038	(0.088)	0.004	0.034
216	18.00	0.13	0.038	(0.087)	0.004	0.034
217	18.08	0.13	0.038	(0.087)	0.004	0.034
218	18.17	0.13	0.038	(0.086)	0.004	0.034
219	18.25	0.13	0.038	(0.086)	0.004	0.034
220	18.33	0.13	0.038	(0.086)	0.004	0.034
221	18.42	0.13	0.038	(0.085)	0.004	0.034
222	18.50	0.13	0.038	(0.085)	0.004	0.034
223	18.58	0.10	0.029	(0.084)	0.003	0.026
224	18.67	0.10	0.029	(0.084)	0.003	0.026
225	18.75	0.10	0.029	(0.084)	0.003	0.026
226	18.83	0.07	0.019	(0.083)	0.002	0.017
227	18.92	0.07	0.019	(0.083)	0.002	0.017
228	19.00	0.07	0.019	(0.082)	0.002	0.017
229	19.08	0.10	0.029	(0.082)	0.003	0.026
230	19.17	0.10	0.029	(0.082)	0.003	0.026
231	19.25	0.10	0.029	(0.081)	0.003	0.026
232	19.33	0.13	0.038	(0.081)	0.004	0.034
233	19.42	0.13	0.038	(0.080)	0.004	0.034
234	19.50	0.13	0.038	(0.080)	0.004	0.034
235	19.58	0.10	0.029	(0.080)	0.003	0.026
236	19.67	0.10	0.029	(0.079)	0.003	0.026
237	19.75	0.10	0.029	(0.079)	0.003	0.026
238	19.83	0.07	0.019	(0.079)	0.002	0.017
239	19.92	0.07	0.019	(0.078)	0.002	0.017
240	20.00	0.07	0.019	(0.078)	0.002	0.017
241	20.08	0.10	0.029	(0.078)	0.003	0.026
242	20.17	0.10	0.029	(0.077)	0.003	0.026
243	20.25	0.10	0.029	(0.077)	0.003	0.026
244	20.33	0.10	0.029	(0.077)	0.003	0.026
245	20.42	0.10	0.029	(0.076)	0.003	0.026
246	20.50	0.10	0.029	(0.076)	0.003	0.026
247	20.58	0.10	0.029	(0.076)	0.003	0.026
248	20.67	0.10	0.029	(0.075)	0.003	0.026
249	20.75	0.10	0.029	(0.075)	0.003	0.026
250	20.83	0.07	0.019	(0.075)	0.002	0.017
251	20.92	0.07	0.019	(0.074)	0.002	0.017
252	21.00	0.07	0.019	(0.074)	0.002	0.017
253	21.08	0.10	0.029	(0.074)	0.003	0.026
254	21.17	0.10	0.029	(0.073)	0.003	0.026
255	21.25	0.10	0.029	(0.073)	0.003	0.026
256	21.33	0.07	0.019	(0.073)	0.002	0.017
257	21.42	0.07	0.019	(0.073)	0.002	0.017
258	21.50	0.07	0.019	(0.072)	0.002	0.017
259	21.58	0.10	0.029	(0.072)	0.003	0.026
260	21.67	0.10	0.029	(0.072)	0.003	0.026
261	21.75	0.10	0.029	(0.072)	0.003	0.026
262	21.83	0.07	0.019	(0.071)	0.002	0.017
263	21.92	0.07	0.019	(0.071)	0.002	0.017
264	22.00	0.07	0.019	(0.071)	0.002	0.017
265	22.08	0.10	0.029	(0.071)	0.003	0.026
266	22.17	0.10	0.029	(0.070)	0.003	0.026
267	22.25	0.10	0.029	(0.070)	0.003	0.026
268	22.33	0.07	0.019	(0.070)	0.002	0.017
269	22.42	0.07	0.019	(0.070)	0.002	0.017
270	22.50	0.07	0.019	(0.069)	0.002	0.017
271	22.58	0.07	0.019	(0.069)	0.002	0.017
272	22.67	0.07	0.019	(0.069)	0.002	0.017
273	22.75	0.07	0.019	(0.069)	0.002	0.017
274	22.83	0.07	0.019	(0.069)	0.002	0.017
275	22.92	0.07	0.019	(0.069)	0.002	0.017
276	23.00	0.07	0.019	(0.068)	0.002	0.017
277	23.08	0.07	0.019	(0.068)	0.002	0.017

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.019	(	0.068)	0.002	0.017
279	23.25	0.07	0.019	(	0.068)	0.002	0.017
280	23.33	0.07	0.019	(	0.068)	0.002	0.017
281	23.42	0.07	0.019	(	0.068)	0.002	0.017
282	23.50	0.07	0.019	(	0.068)	0.002	0.017
283	23.58	0.07	0.019	(	0.067)	0.002	0.017
284	23.67	0.07	0.019	(	0.067)	0.002	0.017
285	23.75	0.07	0.019	(	0.067)	0.002	0.017
286	23.83	0.07	0.019	(	0.067)	0.002	0.017
287	23.92	0.07	0.019	(	0.067)	0.002	0.017
288	24.00	0.07	0.019	(	0.067)	0.002	0.017

(Loss Rate Not Used)

Sum = 100.0 Sum = 25.9

Flood volume = Effective rainfall 2.15(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.0(Ac.Ft)
Total soil loss = 0.24(In)
Total soil loss = 1.339(Ac.Ft)
Total rainfall = 2.39(In)
Flood volume = 524759.2 Cubic Feet
Total soil loss = 58306.6 Cubic Feet

Peak flow rate of this hydrograph = 19.746(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

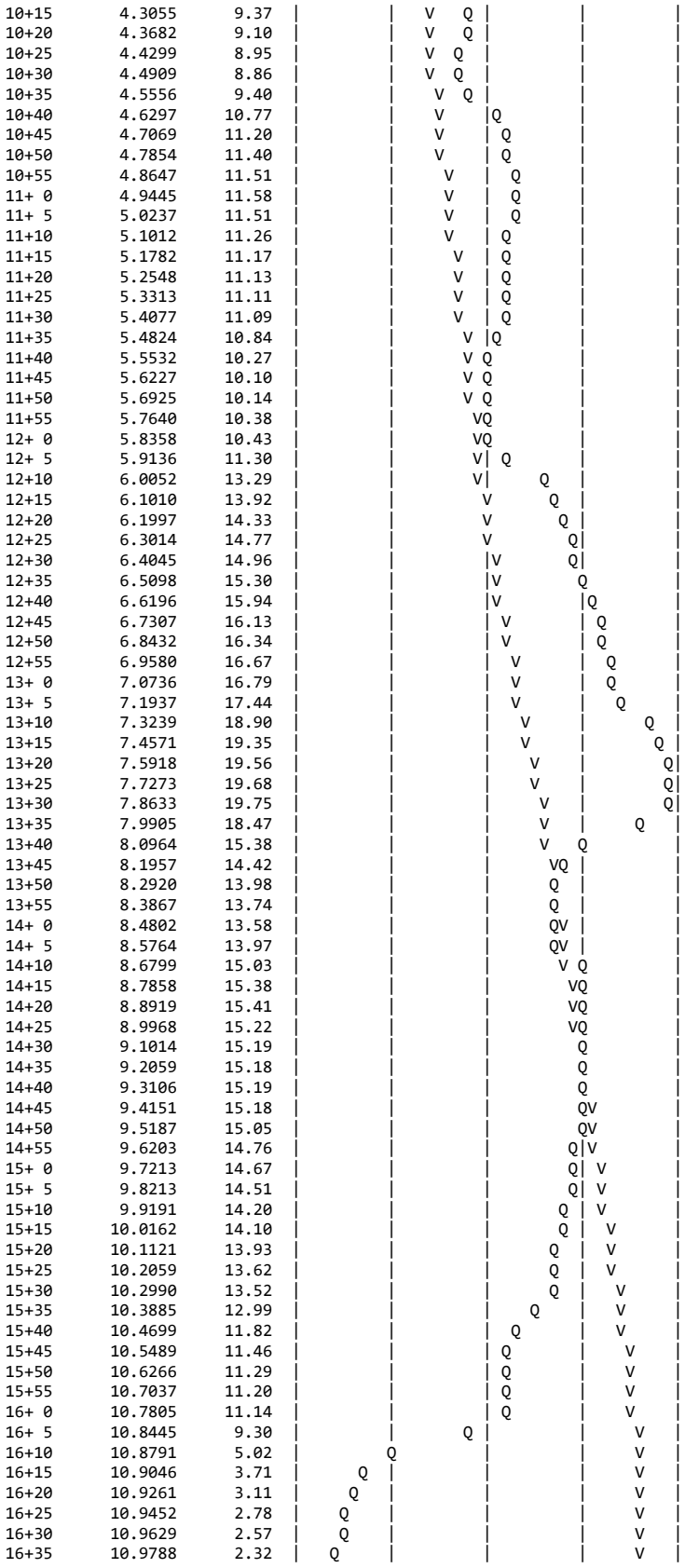
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0017	0.24	Q				
0+10	0.0072	0.81	VQ				
0+15	0.0140	0.98	VQ				
0+20	0.0221	1.18	V Q				
0+25	0.0325	1.51	V Q				
0+30	0.0437	1.63	V Q				
0+35	0.0553	1.68	V Q				
0+40	0.0672	1.72	V Q				
0+45	0.0791	1.73	V Q				
0+50	0.0919	1.86	V Q				
0+55	0.1068	2.15	V Q				
1+ 0	0.1222	2.24	V Q				
1+ 5	0.1371	2.16	V Q				
1+10	0.1501	1.90	V Q				
1+15	0.1627	1.83	V Q				
1+20	0.1751	1.79	V Q				
1+25	0.1873	1.78	V Q				
1+30	0.1995	1.76	V Q				
1+35	0.2116	1.76	V Q				
1+40	0.2236	1.75	V Q				
1+45	0.2357	1.75	V Q				
1+50	0.2485	1.87	V Q				
1+55	0.2634	2.15	V Q				
2+ 0	0.2788	2.24	V Q				
2+ 5	0.2945	2.28	V Q				
2+10	0.3104	2.30	|V Q				
2+15	0.3263	2.32	|V Q				
2+20	0.3423	2.33	|V Q				
2+25	0.3584	2.33	|V Q				
2+30	0.3745	2.33	|V Q				
2+35	0.3913	2.45	|V Q				
2+40	0.4102	2.74	|V Q				
2+45	0.4296	2.82	|V Q				
2+50	0.4494	2.86	|V Q				
2+55	0.4692	2.89	|V Q				
3+ 0	0.4892	2.90	|V Q				
3+ 5	0.5092	2.91	|V Q				
3+10	0.5293	2.92	|V Q				
3+15	0.5494	2.92	|V Q				
3+20	0.5695	2.92	|V Q				
3+25	0.5895	2.92	|V Q				
3+30	0.6096	2.92	| V Q				
3+35	0.6297	2.92	| V Q				
3+40	0.6498	2.92	| V Q				
3+45	0.6699	2.92	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
 3+50      0.6908      3.04  | V   Q   |         |         |         |
 3+55      0.7136      3.32  | V   Q   |         |         |         |
 4+ 0      0.7371      3.41  | V   Q   |         |         |         |
 4+ 5      0.7608      3.45  | V   Q   |         |         |         |
 4+10      0.7847      3.47  | V   Q   |         |         |         |
 4+15      0.8087      3.48  | V   Q   |         |         |         |
 4+20      0.8336      3.61  | V    Q  |         |         |         |
 4+25      0.8604      3.90  | V    Q  |         |         |         |
 4+30      0.8879      3.99  | V    Q  |         |         |         |
 4+35      0.9157      4.03  |  V    Q |         |         |         |
 4+40      0.9436      4.05  |  V    Q |         |         |         |
 4+45      0.9716      4.07  |  V    Q |         |         |         |
 4+50      1.0005      4.19  |  V    Q |         |         |         |
 4+55      1.0314      4.49  |  V    Q |         |         |         |
 5+ 0      1.0629      4.57  |  V     Q|         |         |         |
 5+ 5      1.0930      4.37  |  V    Q |         |         |         |
 5+10      1.1193      3.83  |  V   Q  |         |         |         |
 5+15      1.1446      3.67  |  V   Q  |         |         |         |
 5+20      1.1702      3.72  |  V   Q  |         |         |         |
 5+25      1.1974      3.96  |  V   Q  |         |         |         |
 5+30      1.2251      4.02  |   V  Q  |         |         |         |
 5+35      1.2538      4.16  |   V  Q  |         |         |         |
 5+40      1.2845      4.46  |   V  Q  |         |         |         |
 5+45      1.3159      4.56  |   V   Q|         |         |         |
 5+50      1.3476      4.61  |   V   Q|         |         |         |
 5+55      1.3795      4.63  |   V   Q|         |         |         |
 6+ 0      1.4115      4.65  |   V   Q|         |         |         |
 6+ 5      1.4444      4.78  |   V   Q|         |         |         |
 6+10      1.4794      5.07  |   V    Q         |         |         |
 6+15      1.5149      5.16  |    V   Q         |         |         |
 6+20      1.5506      5.20  |    V   Q         |         |         |
 6+25      1.5866      5.22  |    V   Q         |         |         |
 6+30      1.6226      5.23  |    V   Q         |         |         |
 6+35      1.6595      5.36  |    V   Q         |         |         |
 6+40      1.6985      5.65  |    V   |Q        |         |         |
 6+45      1.7380      5.74  |    V   |Q        |         |         |
 6+50      1.7778      5.78  |    V   |Q        |         |         |
 6+55      1.8177      5.80  |     V  |Q        |         |         |
 7+ 0      1.8578      5.82  |     V  |Q        |         |         |
 7+ 5      1.8979      5.82  |     V  |Q        |         |         |
 7+10      1.9380      5.83  |     V  |Q        |         |         |
 7+15      1.9782      5.83  |     V  |Q        |         |         |
 7+20      2.0192      5.95  |     V  |Q        |         |         |
 7+25      2.0621      6.23  |     V  | Q       |         |         |
 7+30      2.1057      6.32  |     V  | Q       |         |         |
 7+35      2.1503      6.48  |      V | Q       |         |         |
 7+40      2.1971      6.79  |      V |  Q      |         |         |
 7+45      2.2445      6.89  |      V |  Q      |         |         |
 7+50      2.2931      7.06  |      V |   Q     |         |         |
 7+55      2.3439      7.37  |      V |   Q     |         |         |
 8+ 0      2.3953      7.47  |      V |   Q     |         |         |
 8+ 5      2.4488      7.76  |       V|    Q    |         |         |
 8+10      2.5064      8.36  |       V|     Q   |         |         |
 8+15      2.5652      8.55  |       V|      Q  |         |         |
 8+20      2.6247      8.64  |       V|      Q  |         |         |
 8+25      2.6845      8.69  |       V|      Q  |         |         |
 8+30      2.7445      8.71  |        V|     Q  |         |         |
 8+35      2.8055      8.85  |        V|     Q  |         |         |
 8+40      2.8685      9.15  |        V|      Q |         |         |
 8+45      2.9321      9.24  |        V|      Q |         |         |
 8+50      2.9968      9.40  |        V|      Q |         |         |
 8+55      3.0637      9.70  |         V       Q|         |         |
 9+ 0      3.1312      9.80  |         V       Q|         |         |
 9+ 5      3.2007     10.09  |         V        Q         |         |
 9+10      3.2743     10.69  |         V        |Q        |         |
 9+15      3.3493     10.88  |         |V       |Q        |         |
 9+20      3.4256     11.09  |         |V       | Q       |         |
 9+25      3.5043     11.42  |         |V       | Q       |         |
 9+30      3.5838     11.54  |         |V       |  Q      |         |
 9+35      3.6644     11.72  |         | V      |  Q      |         |
 9+40      3.7473     12.04  |         | V      |   Q     |         |
 9+45      3.8309     12.14  |         | V      |   Q     |         |
 9+50      3.9157     12.31  |         |  V     |   Q     |         |
 9+55      4.0026     12.62  |         |  V     |    Q    |         |
10+ 0      4.0902     12.72  |         |  V     |    Q    |         |
10+ 5      4.1723     11.93  |         |  V     |  Q      |         |
10+10      4.2410      9.97  |         |   V    Q|        |         |
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley



10+15	4.3055	9.37	V Q
10+20	4.3682	9.10	V Q
10+25	4.4299	8.95	V Q
10+30	4.4909	8.86	V Q
10+35	4.5556	9.40	V Q
10+40	4.6297	10.77	V Q
10+45	4.7069	11.20	V Q
10+50	4.7854	11.40	V Q
10+55	4.8647	11.51	V Q
11+ 0	4.9445	11.58	V Q
11+ 5	5.0237	11.51	V Q
11+10	5.1012	11.26	V Q
11+15	5.1782	11.17	V Q
11+20	5.2548	11.13	V Q
11+25	5.3313	11.11	V Q
11+30	5.4077	11.09	V Q
11+35	5.4824	10.84	V Q
11+40	5.5532	10.27	V Q
11+45	5.6227	10.10	V Q
11+50	5.6925	10.14	V Q
11+55	5.7640	10.38	VQ
12+ 0	5.8358	10.43	VQ
12+ 5	5.9136	11.30	V Q
12+10	6.0052	13.29	V Q
12+15	6.1010	13.92	V Q
12+20	6.1997	14.33	V Q
12+25	6.3014	14.77	V Q
12+30	6.4045	14.96	V Q
12+35	6.5098	15.30	V Q
12+40	6.6196	15.94	V Q
12+45	6.7307	16.13	V Q
12+50	6.8432	16.34	V Q
12+55	6.9580	16.67	V Q
13+ 0	7.0736	16.79	V Q
13+ 5	7.1937	17.44	V Q
13+10	7.3239	18.90	V Q
13+15	7.4571	19.35	V Q
13+20	7.5918	19.56	V Q
13+25	7.7273	19.68	V Q
13+30	7.8633	19.75	V Q
13+35	7.9905	18.47	V Q
13+40	8.0964	15.38	V Q
13+45	8.1957	14.42	VQ
13+50	8.2920	13.98	Q
13+55	8.3867	13.74	Q
14+ 0	8.4802	13.58	QV
14+ 5	8.5764	13.97	QV
14+10	8.6799	15.03	V Q
14+15	8.7858	15.38	VQ
14+20	8.8919	15.41	VQ
14+25	8.9968	15.22	VQ
14+30	9.1014	15.19	Q
14+35	9.2059	15.18	Q
14+40	9.3106	15.19	Q
14+45	9.4151	15.18	QV
14+50	9.5187	15.05	QV
14+55	9.6203	14.76	Q V
15+ 0	9.7213	14.67	Q V
15+ 5	9.8213	14.51	Q V
15+10	9.9191	14.20	Q V
15+15	10.0162	14.10	Q V
15+20	10.1121	13.93	Q V
15+25	10.2059	13.62	Q V
15+30	10.2990	13.52	Q V
15+35	10.3885	12.99	Q V
15+40	10.4699	11.82	Q V
15+45	10.5489	11.46	Q V
15+50	10.6266	11.29	Q V
15+55	10.7037	11.20	Q V
16+ 0	10.7805	11.14	Q V
16+ 5	10.8445	9.30	Q V
16+10	10.8791	5.02	Q V
16+15	10.9046	3.71	Q V
16+20	10.9261	3.11	Q V
16+25	10.9452	2.78	Q V
16+30	10.9629	2.57	Q V
16+35	10.9788	2.32	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	10.9921	1.93	Q				V
16+45	11.0048	1.84	Q				V
16+50	11.0172	1.80	Q				V
16+55	11.0295	1.78	Q				V
17+ 0	11.0416	1.76	Q				V
17+ 5	11.0554	2.00	Q				V
17+10	11.0730	2.56	Q				V
17+15	11.0918	2.73	Q				V
17+20	11.1112	2.81	Q				V
17+25	11.1308	2.86	Q				V
17+30	11.1507	2.88	Q				V
17+35	11.1707	2.90	Q				V
17+40	11.1907	2.92	Q				V
17+45	11.2108	2.92	Q				V
17+50	11.2301	2.80	Q				V
17+55	11.2474	2.51	Q				V
18+ 0	11.2641	2.42	Q				V
18+ 5	11.2805	2.38	Q				V
18+10	11.2967	2.36	Q				V
18+15	11.3129	2.35	Q				V
18+20	11.3290	2.34	Q				V
18+25	11.3451	2.33	Q				V
18+30	11.3612	2.33	Q				V
18+35	11.3764	2.21	Q				V
18+40	11.3897	1.93	Q				V
18+45	11.4023	1.84	Q				V
18+50	11.4139	1.68	Q				V
18+55	11.4234	1.37	Q				V
19+ 0	11.4322	1.27	Q				V
19+ 5	11.4414	1.35	Q				V
19+10	11.4524	1.60	Q				V
19+15	11.4640	1.67	Q				V
19+20	11.4765	1.82	Q				V
19+25	11.4912	2.12	Q				V
19+30	11.5065	2.22	Q				V
19+35	11.5213	2.15	Q				V
19+40	11.5344	1.90	Q				V
19+45	11.5470	1.83	Q				V
19+50	11.5585	1.67	Q				V
19+55	11.5680	1.37	Q				V
20+ 0	11.5767	1.27	Q				V
20+ 5	11.5860	1.35	Q				V
20+10	11.5970	1.60	Q				V
20+15	11.6085	1.67	Q				V
20+20	11.6203	1.70	Q				V
20+25	11.6321	1.72	Q				V
20+30	11.6440	1.73	Q				V
20+35	11.6560	1.74	Q				V
20+40	11.6681	1.75	Q				V
20+45	11.6801	1.75	Q				V
20+50	11.6914	1.63	Q				V
20+55	11.7006	1.35	Q				V
21+ 0	11.7093	1.26	Q				V
21+ 5	11.7185	1.34	Q				V
21+10	11.7295	1.60	Q				V
21+15	11.7410	1.67	Q				V
21+20	11.7520	1.58	Q				V
21+25	11.7610	1.32	Q				V
21+30	11.7696	1.24	Q				V
21+35	11.7787	1.33	Q				V
21+40	11.7898	1.60	Q				V
21+45	11.8013	1.67	Q				V
21+50	11.8122	1.58	Q				V
21+55	11.8212	1.32	Q				V
22+ 0	11.8298	1.24	Q				V
22+ 5	11.8390	1.33	Q				V
22+10	11.8500	1.60	Q				V
22+15	11.8615	1.67	Q				V
22+20	11.8724	1.58	Q				V
22+25	11.8815	1.32	Q				V
22+30	11.8900	1.24	Q				V
22+35	11.8984	1.21	Q				V
22+40	11.9066	1.20	Q				V
22+45	11.9148	1.18	Q				V
22+50	11.9228	1.17	Q				V
22+55	11.9309	1.17	Q				V
23+ 0	11.9389	1.17	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

23+ 5	11.9469	1.17	Q				V
23+10	11.9550	1.17	Q				V
23+15	11.9630	1.17	Q				V
23+20	11.9710	1.17	Q				V
23+25	11.9791	1.17	Q				V
23+30	11.9871	1.17	Q				V
23+35	11.9951	1.17	Q				V
23+40	12.0031	1.17	Q				V
23+45	12.0112	1.17	Q				V
23+50	12.0192	1.17	Q				V
23+55	12.0272	1.17	Q				V
24+ 0	12.0353	1.17	Q				V
24+ 5	12.0416	0.93	Q				V
24+10	12.0441	0.36	Q				V
24+15	12.0454	0.18	Q				V
24+20	12.0461	0.10	Q				V
24+25	12.0465	0.06	Q				V
24+30	12.0467	0.03	Q				V
24+35	12.0468	0.01	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10110.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 0.788(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 0.788(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.397	(0.097)	0.040	0.357
2	0.17	4.30	0.406	(0.097)	0.041	0.366
3	0.25	5.00	0.473	(0.097)	0.047	0.425
4	0.33	5.00	0.473	(0.097)	0.047	0.425
5	0.42	5.80	0.548	(0.097)	0.055	0.493
6	0.50	6.50	0.614	(0.097)	0.061	0.553
7	0.58	7.40	0.699	(0.097)	0.070	0.629
8	0.67	8.60	0.813	(0.097)	0.081	0.731
9	0.75	12.30	1.162	0.097	(0.116)	1.065
10	0.83	29.10	2.750	0.097	(0.275)	2.653
11	0.92	6.80	0.643	(0.097)	0.064	0.578
12	1.00	5.00	0.473	(0.097)	0.047	0.425
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	8.7

Flood volume = Effective rainfall 0.73(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 4.1(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.348(Ac.Ft)
Total rainfall = 0.79(In)
Flood volume = 176635.1 Cubic Feet
Total soil loss = 15180.3 Cubic Feet

Peak flow rate of this hydrograph = 112.980(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0343	4.98	Q				
0+10	0.1505	16.87	V Q				
0+15	0.2992	21.60	V Q				
0+20	0.4734	25.29	VQ				
0+25	0.6649	27.80	QV				
0+30	0.8836	31.76	Q V				
0+35	1.1315	36.00	Q	V			
0+40	1.4156	41.26	Q	V			
0+45	1.7639	50.57	Q	V			
0+50	2.3521	85.41		Q	V		
0+55	3.1302	112.98			Q	V	

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR10110
   1+ 0       3.5479     60.65  |         | Q       |         |   V     |
   1+ 5       3.8036     37.13  |      Q  |         |         |      V  |
   1+10       3.9193     16.80  |  Q      |         |         |       V |
   1+15       3.9845      9.47  |Q        |         |         |        V|
   1+20       4.0227      5.54  |Q        |         |         |        V|
   1+25       4.0464      3.44  Q         |         |         |        V|
   1+30       4.0526      0.89  Q         |         |         |        V|
   1+35       4.0550      0.35  Q         |         |         |         V
-------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10310.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.236(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.236(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.193	(0.097)	0.019	0.173
2	0.17	1.30	0.193	(0.097)	0.019	0.173
3	0.25	1.10	0.163	(0.097)	0.016	0.147
4	0.33	1.50	0.222	(0.097)	0.022	0.200
5	0.42	1.50	0.222	(0.097)	0.022	0.200
6	0.50	1.80	0.267	(0.097)	0.027	0.240
7	0.58	1.50	0.222	(0.097)	0.022	0.200
8	0.67	1.80	0.267	(0.097)	0.027	0.240
9	0.75	1.80	0.267	(0.097)	0.027	0.240
10	0.83	1.50	0.222	(0.097)	0.022	0.200
11	0.92	1.60	0.237	(0.097)	0.024	0.214
12	1.00	1.80	0.267	(0.097)	0.027	0.240
13	1.08	2.20	0.326	(0.097)	0.033	0.294
14	1.17	2.20	0.326	(0.097)	0.033	0.294
15	1.25	2.20	0.326	(0.097)	0.033	0.294
16	1.33	2.00	0.297	(0.097)	0.030	0.267
17	1.42	2.60	0.386	(0.097)	0.039	0.347
18	1.50	2.70	0.400	(0.097)	0.040	0.360
19	1.58	2.40	0.356	(0.097)	0.036	0.320
20	1.67	2.70	0.400	(0.097)	0.040	0.360
21	1.75	3.30	0.489	(0.097)	0.049	0.440
22	1.83	3.10	0.460	(0.097)	0.046	0.414
23	1.92	2.90	0.430	(0.097)	0.043	0.387
24	2.00	3.00	0.445	(0.097)	0.044	0.400
25	2.08	3.10	0.460	(0.097)	0.046	0.414
26	2.17	4.20	0.623	(0.097)	0.062	0.561
27	2.25	5.00	0.741	(0.097)	0.074	0.667
28	2.33	3.50	0.519	(0.097)	0.052	0.467
29	2.42	6.80	1.008	0.097	(0.101)	0.911
30	2.50	7.30	1.082	0.097	(0.108)	0.985
31	2.58	8.20	1.216	0.097	(0.122)	1.119
32	2.67	5.90	0.875	(0.097)	0.087	0.787
33	2.75	2.00	0.297	(0.097)	0.030	0.267
34	2.83	1.80	0.267	(0.097)	0.027	0.240
35	2.92	1.80	0.267	(0.097)	0.027	0.240
36	3.00	0.60	0.089	(0.097)	0.009	0.080
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	13.4

Flood volume = Effective rainfall 1.12(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.2(Ac.Ft)
Total soil loss = 0.12(In)
Total soil loss = 0.673(Ac.Ft)
Total rainfall = 1.24(In)
Flood volume = 271693.6 Cubic Feet
Total soil loss = 29296.8 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10310

Peak flow rate of this hydrograph = 65.220(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 17.5 35.0 52.5 70.0
0+ 5	0.0167	2.42	VQ
0+10	0.0727	8.13	V Q
0+15	0.1382	9.52	V Q
0+20	0.2084	10.19	V Q
0+25	0.2919	12.12	V Q
0+30	0.3840	13.38	V Q
0+35	0.4838	14.49	V Q
0+40	0.5828	14.37	V Q
0+45	0.6898	15.53	V Q
0+50	0.7954	15.33	V Q
0+55	0.8944	14.39	V Q
1+ 0	0.9969	14.87	V Q
1+ 5	1.1105	16.50	V Q
1+10	1.2379	18.50	V Q
1+15	1.3699	19.16	V Q
1+20	1.5013	19.09	VQ
1+25	1.6355	19.49	VQ
1+30	1.7882	22.17	VQ
1+35	1.9453	22.81	VQ
1+40	2.1004	22.53	QV
1+45	2.2711	24.78	Q
1+50	2.4599	27.41	Q
1+55	2.6467	27.13	QV
2+ 0	2.8303	26.65	Q V
2+ 5	3.0171	27.13	Q V
2+10	3.2216	29.70	Q V
2+15	3.4710	36.22	Q V
2+20	3.7363	38.52	QV
2+25	4.0110	39.89	Q V
2+30	4.3857	54.41	V Q
2+35	4.8185	62.83	V Q
2+40	5.2676	65.22	V Q
2+45	5.6104	49.78	Q V
2+50	5.8193	30.33	Q V
2+55	5.9804	23.39	Q V
3+ 0	6.1063	18.28	Q V
3+ 5	6.1757	10.08	Q V
3+10	6.2079	4.67	Q V
3+15	6.2237	2.29	Q V
3+20	6.2310	1.06	Q V
3+25	6.2349	0.57	Q V
3+30	6.2368	0.28	Q V
3+35	6.2372	0.07	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10610.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 1.705(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 1.705(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.102	(0.097)	0.010	0.092
2	0.17	0.60	0.123	(0.097)	0.012	0.110
3	0.25	0.60	0.123	(0.097)	0.012	0.110
4	0.33	0.60	0.123	(0.097)	0.012	0.110
5	0.42	0.60	0.123	(0.097)	0.012	0.110
6	0.50	0.70	0.143	(0.097)	0.014	0.129
7	0.58	0.70	0.143	(0.097)	0.014	0.129
8	0.67	0.70	0.143	(0.097)	0.014	0.129
9	0.75	0.70	0.143	(0.097)	0.014	0.129
10	0.83	0.70	0.143	(0.097)	0.014	0.129
11	0.92	0.70	0.143	(0.097)	0.014	0.129
12	1.00	0.80	0.164	(0.097)	0.016	0.147
13	1.08	0.80	0.164	(0.097)	0.016	0.147
14	1.17	0.80	0.164	(0.097)	0.016	0.147
15	1.25	0.80	0.164	(0.097)	0.016	0.147
16	1.33	0.80	0.164	(0.097)	0.016	0.147
17	1.42	0.80	0.164	(0.097)	0.016	0.147
18	1.50	0.80	0.164	(0.097)	0.016	0.147
19	1.58	0.80	0.164	(0.097)	0.016	0.147
20	1.67	0.80	0.164	(0.097)	0.016	0.147
21	1.75	0.80	0.164	(0.097)	0.016	0.147
22	1.83	0.80	0.164	(0.097)	0.016	0.147
23	1.92	0.80	0.164	(0.097)	0.016	0.147
24	2.00	0.90	0.184	(0.097)	0.018	0.166
25	2.08	0.80	0.164	(0.097)	0.016	0.147
26	2.17	0.90	0.184	(0.097)	0.018	0.166
27	2.25	0.90	0.184	(0.097)	0.018	0.166
28	2.33	0.90	0.184	(0.097)	0.018	0.166
29	2.42	0.90	0.184	(0.097)	0.018	0.166
30	2.50	0.90	0.184	(0.097)	0.018	0.166
31	2.58	0.90	0.184	(0.097)	0.018	0.166
32	2.67	0.90	0.184	(0.097)	0.018	0.166
33	2.75	1.00	0.205	(0.097)	0.020	0.184
34	2.83	1.00	0.205	(0.097)	0.020	0.184
35	2.92	1.00	0.205	(0.097)	0.020	0.184
36	3.00	1.00	0.205	(0.097)	0.020	0.184
37	3.08	1.00	0.205	(0.097)	0.020	0.184
38	3.17	1.10	0.225	(0.097)	0.023	0.203
39	3.25	1.10	0.225	(0.097)	0.023	0.203
40	3.33	1.10	0.225	(0.097)	0.023	0.203
41	3.42	1.20	0.246	(0.097)	0.025	0.221
42	3.50	1.30	0.266	(0.097)	0.027	0.239
43	3.58	1.40	0.286	(0.097)	0.029	0.258
44	3.67	1.40	0.286	(0.097)	0.029	0.258
45	3.75	1.50	0.307	(0.097)	0.031	0.276
46	3.83	1.50	0.307	(0.097)	0.031	0.276

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10610

47	3.92	1.60	0.327	(0.097)	0.033	0.295
48	4.00	1.60	0.327	(0.097)	0.033	0.295
49	4.08	1.70	0.348	(0.097)	0.035	0.313
50	4.17	1.80	0.368	(0.097)	0.037	0.331
51	4.25	1.90	0.389	(0.097)	0.039	0.350
52	4.33	2.00	0.409	(0.097)	0.041	0.368
53	4.42	2.10	0.430	(0.097)	0.043	0.387
54	4.50	2.10	0.430	(0.097)	0.043	0.387
55	4.58	2.20	0.450	(0.097)	0.045	0.405
56	4.67	2.30	0.471	(0.097)	0.047	0.424
57	4.75	2.40	0.491	(0.097)	0.049	0.442
58	4.83	2.40	0.491	(0.097)	0.049	0.442
59	4.92	2.50	0.512	(0.097)	0.051	0.460
60	5.00	2.60	0.532	(0.097)	0.053	0.479
61	5.08	3.10	0.634	(0.097)	0.063	0.571
62	5.17	3.60	0.737	(0.097)	0.074	0.663
63	5.25	3.90	0.798	(0.097)	0.080	0.718
64	5.33	4.20	0.859	(0.097)	0.086	0.773
65	5.42	4.70	0.962	(0.097)	0.096	0.865
66	5.50	5.60	1.146	0.097	(0.115)	1.049
67	5.58	1.90	0.389	(0.097)	0.039	0.350
68	5.67	0.90	0.184	(0.097)	0.018	0.166
69	5.75	0.60	0.123	(0.097)	0.012	0.110
70	5.83	0.50	0.102	(0.097)	0.010	0.092
71	5.92	0.30	0.061	(0.097)	0.006	0.055
72	6.00	0.20	0.041	(0.097)	0.004	0.037

(Loss Rate Not Used)

Sum = 100.0 Sum = 18.4

Flood volume = Effective rainfall 1.54(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 8.6(Ac.Ft)
Total soil loss = 0.17(In)
Total soil loss = 0.945(Ac.Ft)
Total rainfall = 1.71(In)
Flood volume = 374120.1 Cubic Feet
Total soil loss = 41173.7 Cubic Feet

Peak flow rate of this hydrograph = 57.779(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	15.0	30.0	45.0	60.0
0+ 5	0.0088	1.28	Q				
0+10	0.0403	4.57	V Q				
0+15	0.0824	6.11	V Q				
0+20	0.1287	6.72	V Q				
0+25	0.1773	7.05	V Q				
0+30	0.2289	7.50	V Q				
0+35	0.2856	8.23	V Q				
0+40	0.3442	8.51	V Q				
0+45	0.4035	8.61	V Q				
0+50	0.4632	8.66	V Q				
0+55	0.5230	8.69	V Q				
1+ 0	0.5847	8.96	V Q				
1+ 5	0.6507	9.58	V Q				
1+10	0.7180	9.77	V Q				
1+15	0.7859	9.86	V Q				
1+20	0.8541	9.90	V Q				
1+25	0.9225	9.93	V Q				
1+30	0.9911	9.95	V Q				
1+35	1.0597	9.97	V Q				
1+40	1.1283	9.97	VQ				
1+45	1.1970	9.97	VQ				
1+50	1.2656	9.97	VQ				
1+55	1.3343	9.97	Q				
2+ 0	1.4047	10.22	Q				
2+ 5	1.4775	10.57	VQ				
2+10	1.5492	10.41	QV				
2+15	1.6244	10.92	Q				
2+20	1.7006	11.06	Q				
2+25	1.7773	11.13	QV				
2+30	1.8542	11.17	QV				

3828PR10610

2+35	1.9313	11.19	QV
2+40	2.0084	11.20	Q V
2+45	2.0874	11.47	Q V
2+50	2.1705	12.08	Q V
2+55	2.2550	12.26	Q V
3+ 0	2.3400	12.35	Q V
3+ 5	2.4254	12.40	Q V
3+10	2.5127	12.68	Q V
3+15	2.6044	13.31	Q V
3+20	2.6974	13.51	Q V
3+25	2.7928	13.85	Q V
3+30	2.8945	14.76	Q V
3+35	3.0036	15.84	Q V
3+40	3.1189	16.74	Q V
3+45	3.2382	17.33	Q V
3+50	3.3628	18.10	Q V
3+55	3.4912	18.64	Q V
4+ 0	3.6247	19.39	Q V
4+ 5	3.7619	19.92	Q V
4+10	3.9059	20.91	Q V
4+15	4.0576	22.03	Q V
4+20	4.2174	23.21	Q V
4+25	4.3855	24.41	Q V
4+30	4.5603	25.38	Q V
4+35	4.7394	26.00	Q V
4+40	4.9257	27.06	Q V
4+45	5.1201	28.22	Q V
4+50	5.3209	29.16	Q V
4+55	5.5260	29.77	Q V
5+ 0	5.7382	30.81	Q V
5+ 5	5.9654	32.99	Q V
5+10	6.2246	37.64	Q V
5+15	6.5176	42.54	Q V
5+20	6.8384	46.58	Q
5+25	7.1893	50.95	Q
5+30	7.5872	57.78	V Q
5+35	7.9705	55.66	Q
5+40	8.1961	32.75	Q V
5+45	8.3348	20.14	Q V
5+50	8.4291	13.69	Q V
5+55	8.4966	9.80	Q V
6+ 0	8.5415	6.52	Q V
6+ 5	8.5688	3.96	Q V
6+10	8.5791	1.50	Q V
6+15	8.5840	0.71	Q V
6+20	8.5865	0.37	Q V
6+25	8.5878	0.19	Q V
6+30	8.5884	0.08	Q V
6+35	8.5886	0.03	Q V

3828PR102410

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR102410.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 10-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 10.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 2.881(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 2.881(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-2	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	56.0	0.511	0.900	0.097	1.000	0.097
					Sum (F) =	0.097

Area averaged mean soil loss (F) (In/Hr) = 0.097
Minimum soil loss rate ((In/Hr)) = 0.049
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.023	(0.172)	0.002	0.021
2	0.17	0.07	0.023	(0.171)	0.002	0.021
3	0.25	0.07	0.023	(0.171)	0.002	0.021
4	0.33	0.10	0.035	(0.170)	0.003	0.031
5	0.42	0.10	0.035	(0.169)	0.003	0.031
6	0.50	0.10	0.035	(0.169)	0.003	0.031
7	0.58	0.10	0.035	(0.168)	0.003	0.031
8	0.67	0.10	0.035	(0.167)	0.003	0.031
9	0.75	0.10	0.035	(0.167)	0.003	0.031
10	0.83	0.13	0.046	(0.166)	0.005	0.041
11	0.92	0.13	0.046	(0.165)	0.005	0.041
12	1.00	0.13	0.046	(0.165)	0.005	0.041
13	1.08	0.10	0.035	(0.164)	0.003	0.031
14	1.17	0.10	0.035	(0.163)	0.003	0.031
15	1.25	0.10	0.035	(0.163)	0.003	0.031
16	1.33	0.10	0.035	(0.162)	0.003	0.031
17	1.42	0.10	0.035	(0.162)	0.003	0.031
18	1.50	0.10	0.035	(0.161)	0.003	0.031
19	1.58	0.10	0.035	(0.160)	0.003	0.031
20	1.67	0.10	0.035	(0.160)	0.003	0.031
21	1.75	0.10	0.035	(0.159)	0.003	0.031
22	1.83	0.13	0.046	(0.158)	0.005	0.041
23	1.92	0.13	0.046	(0.158)	0.005	0.041
24	2.00	0.13	0.046	(0.157)	0.005	0.041
25	2.08	0.13	0.046	(0.156)	0.005	0.041
26	2.17	0.13	0.046	(0.156)	0.005	0.041
27	2.25	0.13	0.046	(0.155)	0.005	0.041
28	2.33	0.13	0.046	(0.155)	0.005	0.041
29	2.42	0.13	0.046	(0.154)	0.005	0.041
30	2.50	0.13	0.046	(0.153)	0.005	0.041
31	2.58	0.17	0.058	(0.153)	0.006	0.052
32	2.67	0.17	0.058	(0.152)	0.006	0.052
33	2.75	0.17	0.058	(0.151)	0.006	0.052
34	2.83	0.17	0.058	(0.151)	0.006	0.052
35	2.92	0.17	0.058	(0.150)	0.006	0.052
36	3.00	0.17	0.058	(0.150)	0.006	0.052
37	3.08	0.17	0.058	(0.149)	0.006	0.052
38	3.17	0.17	0.058	(0.148)	0.006	0.052
39	3.25	0.17	0.058	(0.148)	0.006	0.052
40	3.33	0.17	0.058	(0.147)	0.006	0.052
41	3.42	0.17	0.058	(0.146)	0.006	0.052
42	3.50	0.17	0.058	(0.146)	0.006	0.052
43	3.58	0.17	0.058	(0.145)	0.006	0.052
44	3.67	0.17	0.058	(0.145)	0.006	0.052
45	3.75	0.17	0.058	(0.144)	0.006	0.052
46	3.83	0.20	0.069	(0.143)	0.007	0.062

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.069	(0.143)	0.007	0.062
48	4.00	0.20	0.069	(0.142)	0.007	0.062
49	4.08	0.20	0.069	(0.142)	0.007	0.062
50	4.17	0.20	0.069	(0.141)	0.007	0.062
51	4.25	0.20	0.069	(0.140)	0.007	0.062
52	4.33	0.23	0.081	(0.140)	0.008	0.073
53	4.42	0.23	0.081	(0.139)	0.008	0.073
54	4.50	0.23	0.081	(0.139)	0.008	0.073
55	4.58	0.23	0.081	(0.138)	0.008	0.073
56	4.67	0.23	0.081	(0.137)	0.008	0.073
57	4.75	0.23	0.081	(0.137)	0.008	0.073
58	4.83	0.27	0.092	(0.136)	0.009	0.083
59	4.92	0.27	0.092	(0.136)	0.009	0.083
60	5.00	0.27	0.092	(0.135)	0.009	0.083
61	5.08	0.20	0.069	(0.134)	0.007	0.062
62	5.17	0.20	0.069	(0.134)	0.007	0.062
63	5.25	0.20	0.069	(0.133)	0.007	0.062
64	5.33	0.23	0.081	(0.133)	0.008	0.073
65	5.42	0.23	0.081	(0.132)	0.008	0.073
66	5.50	0.23	0.081	(0.132)	0.008	0.073
67	5.58	0.27	0.092	(0.131)	0.009	0.083
68	5.67	0.27	0.092	(0.130)	0.009	0.083
69	5.75	0.27	0.092	(0.130)	0.009	0.083
70	5.83	0.27	0.092	(0.129)	0.009	0.083
71	5.92	0.27	0.092	(0.129)	0.009	0.083
72	6.00	0.27	0.092	(0.128)	0.009	0.083
73	6.08	0.30	0.104	(0.128)	0.010	0.093
74	6.17	0.30	0.104	(0.127)	0.010	0.093
75	6.25	0.30	0.104	(0.126)	0.010	0.093
76	6.33	0.30	0.104	(0.126)	0.010	0.093
77	6.42	0.30	0.104	(0.125)	0.010	0.093
78	6.50	0.30	0.104	(0.125)	0.010	0.093
79	6.58	0.33	0.115	(0.124)	0.012	0.104
80	6.67	0.33	0.115	(0.124)	0.012	0.104
81	6.75	0.33	0.115	(0.123)	0.012	0.104
82	6.83	0.33	0.115	(0.122)	0.012	0.104
83	6.92	0.33	0.115	(0.122)	0.012	0.104
84	7.00	0.33	0.115	(0.121)	0.012	0.104
85	7.08	0.33	0.115	(0.121)	0.012	0.104
86	7.17	0.33	0.115	(0.120)	0.012	0.104
87	7.25	0.33	0.115	(0.120)	0.012	0.104
88	7.33	0.37	0.127	(0.119)	0.013	0.114
89	7.42	0.37	0.127	(0.119)	0.013	0.114
90	7.50	0.37	0.127	(0.118)	0.013	0.114
91	7.58	0.40	0.138	(0.118)	0.014	0.124
92	7.67	0.40	0.138	(0.117)	0.014	0.124
93	7.75	0.40	0.138	(0.116)	0.014	0.124
94	7.83	0.43	0.150	(0.116)	0.015	0.135
95	7.92	0.43	0.150	(0.115)	0.015	0.135
96	8.00	0.43	0.150	(0.115)	0.015	0.135
97	8.08	0.50	0.173	(0.114)	0.017	0.156
98	8.17	0.50	0.173	(0.114)	0.017	0.156
99	8.25	0.50	0.173	(0.113)	0.017	0.156
100	8.33	0.50	0.173	(0.113)	0.017	0.156
101	8.42	0.50	0.173	(0.112)	0.017	0.156
102	8.50	0.50	0.173	(0.112)	0.017	0.156
103	8.58	0.53	0.184	(0.111)	0.018	0.166
104	8.67	0.53	0.184	(0.111)	0.018	0.166
105	8.75	0.53	0.184	(0.110)	0.018	0.166
106	8.83	0.57	0.196	(0.110)	0.020	0.176
107	8.92	0.57	0.196	(0.109)	0.020	0.176
108	9.00	0.57	0.196	(0.109)	0.020	0.176
109	9.08	0.63	0.219	(0.108)	0.022	0.197
110	9.17	0.63	0.219	(0.108)	0.022	0.197
111	9.25	0.63	0.219	(0.107)	0.022	0.197
112	9.33	0.67	0.230	(0.107)	0.023	0.207
113	9.42	0.67	0.230	(0.106)	0.023	0.207
114	9.50	0.67	0.230	(0.105)	0.023	0.207
115	9.58	0.70	0.242	(0.105)	0.024	0.218
116	9.67	0.70	0.242	(0.104)	0.024	0.218
117	9.75	0.70	0.242	(0.104)	0.024	0.218
118	9.83	0.73	0.254	(0.103)	0.025	0.228
119	9.92	0.73	0.254	(0.103)	0.025	0.228
120	10.00	0.73	0.254	(0.102)	0.025	0.228
121	10.08	0.50	0.173	(0.102)	0.017	0.156
122	10.17	0.50	0.173	(0.101)	0.017	0.156
123	10.25	0.50	0.173	(0.101)	0.017	0.156

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.173	(0.101)	0.017	0.156
125	10.42	0.50	0.173	(0.100)	0.017	0.156
126	10.50	0.50	0.173	(0.100)	0.017	0.156
127	10.58	0.67	0.230	(0.099)	0.023	0.207
128	10.67	0.67	0.230	(0.099)	0.023	0.207
129	10.75	0.67	0.230	(0.098)	0.023	0.207
130	10.83	0.67	0.230	(0.098)	0.023	0.207
131	10.92	0.67	0.230	(0.097)	0.023	0.207
132	11.00	0.67	0.230	(0.097)	0.023	0.207
133	11.08	0.63	0.219	(0.096)	0.022	0.197
134	11.17	0.63	0.219	(0.096)	0.022	0.197
135	11.25	0.63	0.219	(0.095)	0.022	0.197
136	11.33	0.63	0.219	(0.095)	0.022	0.197
137	11.42	0.63	0.219	(0.094)	0.022	0.197
138	11.50	0.63	0.219	(0.094)	0.022	0.197
139	11.58	0.57	0.196	(0.093)	0.020	0.176
140	11.67	0.57	0.196	(0.093)	0.020	0.176
141	11.75	0.57	0.196	(0.092)	0.020	0.176
142	11.83	0.60	0.207	(0.092)	0.021	0.187
143	11.92	0.60	0.207	(0.092)	0.021	0.187
144	12.00	0.60	0.207	(0.091)	0.021	0.187
145	12.08	0.83	0.288	(0.091)	0.029	0.259
146	12.17	0.83	0.288	(0.090)	0.029	0.259
147	12.25	0.83	0.288	(0.090)	0.029	0.259
148	12.33	0.87	0.300	(0.089)	0.030	0.270
149	12.42	0.87	0.300	(0.089)	0.030	0.270
150	12.50	0.87	0.300	(0.088)	0.030	0.270
151	12.58	0.93	0.323	(0.088)	0.032	0.290
152	12.67	0.93	0.323	(0.087)	0.032	0.290
153	12.75	0.93	0.323	(0.087)	0.032	0.290
154	12.83	0.97	0.334	(0.087)	0.033	0.301
155	12.92	0.97	0.334	(0.086)	0.033	0.301
156	13.00	0.97	0.334	(0.086)	0.033	0.301
157	13.08	1.13	0.392	(0.085)	0.039	0.353
158	13.17	1.13	0.392	(0.085)	0.039	0.353
159	13.25	1.13	0.392	(0.084)	0.039	0.353
160	13.33	1.13	0.392	(0.084)	0.039	0.353
161	13.42	1.13	0.392	(0.084)	0.039	0.353
162	13.50	1.13	0.392	(0.083)	0.039	0.353
163	13.58	0.77	0.265	(0.083)	0.027	0.239
164	13.67	0.77	0.265	(0.082)	0.027	0.239
165	13.75	0.77	0.265	(0.082)	0.027	0.239
166	13.83	0.77	0.265	(0.081)	0.027	0.239
167	13.92	0.77	0.265	(0.081)	0.027	0.239
168	14.00	0.77	0.265	(0.081)	0.027	0.239
169	14.08	0.90	0.311	(0.080)	0.031	0.280
170	14.17	0.90	0.311	(0.080)	0.031	0.280
171	14.25	0.90	0.311	(0.079)	0.031	0.280
172	14.33	0.87	0.300	(0.079)	0.030	0.270
173	14.42	0.87	0.300	(0.079)	0.030	0.270
174	14.50	0.87	0.300	(0.078)	0.030	0.270
175	14.58	0.87	0.300	(0.078)	0.030	0.270
176	14.67	0.87	0.300	(0.077)	0.030	0.270
177	14.75	0.87	0.300	(0.077)	0.030	0.270
178	14.83	0.83	0.288	(0.077)	0.029	0.259
179	14.92	0.83	0.288	(0.076)	0.029	0.259
180	15.00	0.83	0.288	(0.076)	0.029	0.259
181	15.08	0.80	0.277	(0.075)	0.028	0.249
182	15.17	0.80	0.277	(0.075)	0.028	0.249
183	15.25	0.80	0.277	(0.075)	0.028	0.249
184	15.33	0.77	0.265	(0.074)	0.027	0.239
185	15.42	0.77	0.265	(0.074)	0.027	0.239
186	15.50	0.77	0.265	(0.073)	0.027	0.239
187	15.58	0.63	0.219	(0.073)	0.022	0.197
188	15.67	0.63	0.219	(0.073)	0.022	0.197
189	15.75	0.63	0.219	(0.072)	0.022	0.197
190	15.83	0.63	0.219	(0.072)	0.022	0.197
191	15.92	0.63	0.219	(0.072)	0.022	0.197
192	16.00	0.63	0.219	(0.071)	0.022	0.197
193	16.08	0.13	0.046	(0.071)	0.005	0.041
194	16.17	0.13	0.046	(0.071)	0.005	0.041
195	16.25	0.13	0.046	(0.070)	0.005	0.041
196	16.33	0.13	0.046	(0.070)	0.005	0.041
197	16.42	0.13	0.046	(0.069)	0.005	0.041
198	16.50	0.13	0.046	(0.069)	0.005	0.041
199	16.58	0.10	0.035	(0.069)	0.003	0.031
200	16.67	0.10	0.035	(0.068)	0.003	0.031

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.035	(0.068)	0.003	0.031
202	16.83	0.10	0.035	(0.068)	0.003	0.031
203	16.92	0.10	0.035	(0.067)	0.003	0.031
204	17.00	0.10	0.035	(0.067)	0.003	0.031
205	17.08	0.17	0.058	(0.067)	0.006	0.052
206	17.17	0.17	0.058	(0.066)	0.006	0.052
207	17.25	0.17	0.058	(0.066)	0.006	0.052
208	17.33	0.17	0.058	(0.066)	0.006	0.052
209	17.42	0.17	0.058	(0.065)	0.006	0.052
210	17.50	0.17	0.058	(0.065)	0.006	0.052
211	17.58	0.17	0.058	(0.065)	0.006	0.052
212	17.67	0.17	0.058	(0.064)	0.006	0.052
213	17.75	0.17	0.058	(0.064)	0.006	0.052
214	17.83	0.13	0.046	(0.064)	0.005	0.041
215	17.92	0.13	0.046	(0.063)	0.005	0.041
216	18.00	0.13	0.046	(0.063)	0.005	0.041
217	18.08	0.13	0.046	(0.063)	0.005	0.041
218	18.17	0.13	0.046	(0.063)	0.005	0.041
219	18.25	0.13	0.046	(0.062)	0.005	0.041
220	18.33	0.13	0.046	(0.062)	0.005	0.041
221	18.42	0.13	0.046	(0.062)	0.005	0.041
222	18.50	0.13	0.046	(0.061)	0.005	0.041
223	18.58	0.10	0.035	(0.061)	0.003	0.031
224	18.67	0.10	0.035	(0.061)	0.003	0.031
225	18.75	0.10	0.035	(0.060)	0.003	0.031
226	18.83	0.07	0.023	(0.060)	0.002	0.021
227	18.92	0.07	0.023	(0.060)	0.002	0.021
228	19.00	0.07	0.023	(0.060)	0.002	0.021
229	19.08	0.10	0.035	(0.059)	0.003	0.031
230	19.17	0.10	0.035	(0.059)	0.003	0.031
231	19.25	0.10	0.035	(0.059)	0.003	0.031
232	19.33	0.13	0.046	(0.058)	0.005	0.041
233	19.42	0.13	0.046	(0.058)	0.005	0.041
234	19.50	0.13	0.046	(0.058)	0.005	0.041
235	19.58	0.10	0.035	(0.058)	0.003	0.031
236	19.67	0.10	0.035	(0.057)	0.003	0.031
237	19.75	0.10	0.035	(0.057)	0.003	0.031
238	19.83	0.07	0.023	(0.057)	0.002	0.021
239	19.92	0.07	0.023	(0.057)	0.002	0.021
240	20.00	0.07	0.023	(0.056)	0.002	0.021
241	20.08	0.10	0.035	(0.056)	0.003	0.031
242	20.17	0.10	0.035	(0.056)	0.003	0.031
243	20.25	0.10	0.035	(0.056)	0.003	0.031
244	20.33	0.10	0.035	(0.055)	0.003	0.031
245	20.42	0.10	0.035	(0.055)	0.003	0.031
246	20.50	0.10	0.035	(0.055)	0.003	0.031
247	20.58	0.10	0.035	(0.055)	0.003	0.031
248	20.67	0.10	0.035	(0.054)	0.003	0.031
249	20.75	0.10	0.035	(0.054)	0.003	0.031
250	20.83	0.07	0.023	(0.054)	0.002	0.021
251	20.92	0.07	0.023	(0.054)	0.002	0.021
252	21.00	0.07	0.023	(0.054)	0.002	0.021
253	21.08	0.10	0.035	(0.053)	0.003	0.031
254	21.17	0.10	0.035	(0.053)	0.003	0.031
255	21.25	0.10	0.035	(0.053)	0.003	0.031
256	21.33	0.07	0.023	(0.053)	0.002	0.021
257	21.42	0.07	0.023	(0.053)	0.002	0.021
258	21.50	0.07	0.023	(0.052)	0.002	0.021
259	21.58	0.10	0.035	(0.052)	0.003	0.031
260	21.67	0.10	0.035	(0.052)	0.003	0.031
261	21.75	0.10	0.035	(0.052)	0.003	0.031
262	21.83	0.07	0.023	(0.052)	0.002	0.021
263	21.92	0.07	0.023	(0.051)	0.002	0.021
264	22.00	0.07	0.023	(0.051)	0.002	0.021
265	22.08	0.10	0.035	(0.051)	0.003	0.031
266	22.17	0.10	0.035	(0.051)	0.003	0.031
267	22.25	0.10	0.035	(0.051)	0.003	0.031
268	22.33	0.07	0.023	(0.051)	0.002	0.021
269	22.42	0.07	0.023	(0.050)	0.002	0.021
270	22.50	0.07	0.023	(0.050)	0.002	0.021
271	22.58	0.07	0.023	(0.050)	0.002	0.021
272	22.67	0.07	0.023	(0.050)	0.002	0.021
273	22.75	0.07	0.023	(0.050)	0.002	0.021
274	22.83	0.07	0.023	(0.050)	0.002	0.021
275	22.92	0.07	0.023	(0.050)	0.002	0.021
276	23.00	0.07	0.023	(0.049)	0.002	0.021
277	23.08	0.07	0.023	(0.049)	0.002	0.021

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.023	(0.049)	0.002	0.021	
279	23.25	0.07	0.023	(0.049)	0.002	0.021	
280	23.33	0.07	0.023	(0.049)	0.002	0.021	
281	23.42	0.07	0.023	(0.049)	0.002	0.021	
282	23.50	0.07	0.023	(0.049)	0.002	0.021	
283	23.58	0.07	0.023	(0.049)	0.002	0.021	
284	23.67	0.07	0.023	(0.049)	0.002	0.021	
285	23.75	0.07	0.023	(0.049)	0.002	0.021	
286	23.83	0.07	0.023	(0.049)	0.002	0.021	
287	23.92	0.07	0.023	(0.049)	0.002	0.021	
288	24.00	0.07	0.023	(0.049)	0.002	0.021	

(Loss Rate Not Used)

Sum = 100.0 Sum = 31.1

Flood volume = Effective rainfall 2.59(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 14.5(Ac.Ft)
Total soil loss = 0.29(In)
Total soil loss = 1.611(Ac.Ft)
Total rainfall = 2.88(In)
Flood volume = 631559.3 Cubic Feet
Total soil loss = 70173.3 Cubic Feet

Peak flow rate of this hydrograph = 23.765(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0020	0.29	Q				
0+10	0.0087	0.97	VQ				
0+15	0.0168	1.18	VQ				
0+20	0.0266	1.42	VQ				
0+25	0.0392	1.82	V Q				
0+30	0.0526	1.96	V Q				
0+35	0.0666	2.03	V Q				
0+40	0.0808	2.07	V Q				
0+45	0.0952	2.09	V Q				
0+50	0.1106	2.24	V Q				
0+55	0.1285	2.59	V Q				
1+ 0	0.1471	2.70	V Q				
1+ 5	0.1650	2.60	V Q				
1+10	0.1807	2.28	V Q				
1+15	0.1958	2.20	V Q				
1+20	0.2107	2.16	V Q				
1+25	0.2255	2.14	V Q				
1+30	0.2401	2.12	V Q				
1+35	0.2546	2.11	V Q				
1+40	0.2691	2.11	V Q				
1+45	0.2836	2.11	V Q				
1+50	0.2991	2.25	V Q				
1+55	0.3170	2.59	V Q				
2+ 0	0.3355	2.70	V Q				
2+ 5	0.3544	2.74	V Q				
2+10	0.3735	2.77	|V Q				
2+15	0.3927	2.79	|V Q				
2+20	0.4120	2.80	|V Q				
2+25	0.4313	2.81	|V Q				
2+30	0.4507	2.81	|V Q				
2+35	0.4710	2.95	|V Q				
2+40	0.4937	3.29	|V Q				
2+45	0.5171	3.40	|V Q				
2+50	0.5408	3.45	|V Q				
2+55	0.5647	3.47	|V Q				
3+ 0	0.5888	3.49	|V Q				
3+ 5	0.6129	3.50	|V Q				
3+10	0.6370	3.51	|V Q				
3+15	0.6612	3.51	|V Q				
3+20	0.6854	3.51	|V Q				
3+25	0.7095	3.51	|V Q				
3+30	0.7337	3.51	| V Q				
3+35	0.7579	3.51	| V Q				
3+40	0.7820	3.51	| V Q				
3+45	0.8062	3.51	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	0.8313	3.65	V Q				
3+55	0.8589	3.99	V Q				
4+ 0	0.8871	4.10	V Q				
4+ 5	0.9157	4.15	V Q				
4+10	0.9444	4.17	V Q				
4+15	0.9733	4.19	V Q				
4+20	1.0032	4.35	V Q				
4+25	1.0356	4.70	V Q				
4+30	1.0686	4.80	V Q				
4+35	1.1020	4.85	V Q				
4+40	1.1356	4.88	V Q				
4+45	1.1693	4.89	V Q				
4+50	1.2041	5.05	V Q				
4+55	1.2413	5.40	V Q				
5+ 0	1.2792	5.50	V Q				
5+ 5	1.3154	5.26	V Q				
5+10	1.3471	4.61	V Q				
5+15	1.3775	4.41	V Q				
5+20	1.4083	4.47	V Q				
5+25	1.4412	4.77	V Q				
5+30	1.4745	4.84	V Q				
5+35	1.5090	5.01	V Q				
5+40	1.5459	5.36	V Q				
5+45	1.5837	5.48	V Q				
5+50	1.6219	5.54	V Q				
5+55	1.6603	5.58	V Q				
6+ 0	1.6988	5.60	V Q				
6+ 5	1.7384	5.75	V Q				
6+10	1.7804	6.10	V Q				
6+15	1.8232	6.21	V Q				
6+20	1.8662	6.25	V Q				
6+25	1.9095	6.28	V Q				
6+30	1.9529	6.30	V Q				
6+35	1.9973	6.45	V Q				
6+40	2.0441	6.80	V Q				
6+45	2.0917	6.91	V Q				
6+50	2.1396	6.95	V Q				
6+55	2.1877	6.98	V Q				
7+ 0	2.2359	7.00	V Q				
7+ 5	2.2841	7.01	V Q				
7+10	2.3325	7.02	V Q				
7+15	2.3808	7.02	V Q				
7+20	2.4301	7.16	V Q				
7+25	2.4818	7.50	V Q				
7+30	2.5342	7.61	V Q				
7+35	2.5879	7.80	V Q				
7+40	2.6442	8.17	V Q				
7+45	2.7013	8.29	V Q				
7+50	2.7598	8.49	V Q				
7+55	2.8209	8.87	V Q				
8+ 0	2.8828	8.99	V Q				
8+ 5	2.9472	9.34	V Q				
8+10	3.0164	10.06	V Q				
8+15	3.0873	10.29	V Q				
8+20	3.1589	10.39	V Q				
8+25	3.2309	10.45	V Q				
8+30	3.3031	10.49	V Q				
8+35	3.3765	10.65	V Q				
8+40	3.4523	11.01	V Q				
8+45	3.5289	11.12	V Q				
8+50	3.6068	11.31	V Q				
8+55	3.6872	11.68	V Q				
9+ 0	3.7685	11.80	V Q				
9+ 5	3.8521	12.15	V Q				
9+10	3.9407	12.87	V Q				
9+15	4.0309	13.09	V Q				
9+20	4.1228	13.34	V Q				
9+25	4.2175	13.75	V Q				
9+30	4.3131	13.89	V Q				
9+35	4.4102	14.10	V Q				
9+40	4.5100	14.49	V Q				
9+45	4.6106	14.61	V Q				
9+50	4.7126	14.81	V Q				
9+55	4.8172	15.19	V Q				
10+ 0	4.9226	15.31	V Q				
10+ 5	5.0215	14.35	V Q				
10+10	5.1041	12.00	VQ				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
10+15      5.1818     11.28  |          |   VQ     |          |          |
10+20      5.2573     10.96  |          |   Q      |          |          |
10+25      5.3315     10.78  |          |   Q      |          |          |
10+30      5.4049     10.66  |          |   Q      |          |          |
10+35      5.4828     11.31  |          |    Q     |          |          |
10+40      5.5720     12.96  |          |    V Q   |          |          |
10+45      5.6648     13.48  |          |    V Q   |          |          |
10+50      5.7594     13.72  |          |    V  Q  |          |          |
10+55      5.8548     13.86  |          |     V Q  |          |          |
11+ 0      5.9508     13.94  |          |     V Q  |          |          |
11+ 5      6.0462     13.85  |          |     V Q  |          |          |
11+10      6.1395     13.55  |          |     V Q  |          |          |
11+15      6.2320     13.44  |          |      Q   |          |          |
11+20      6.3243     13.40  |          |      Q   |          |          |
11+25      6.4164     13.37  |          |      Q   |          |          |
11+30      6.5083     13.35  |          |      Q   |          |          |
11+35      6.5982     13.05  |          |      QV  |          |          |
11+40      6.6833     12.36  |          |     Q V  |          |          |
11+45      6.7670     12.15  |          |     Q V  |          |          |
11+50      6.8510     12.20  |          |     Q V  |          |          |
11+55      6.9370     12.49  |          |     Q  V |          |          |
12+ 0      7.0235     12.56  |          |     Q  V |          |          |
12+ 5      7.1172     13.60  |          |       QV |          |          |
12+10      7.2274     16.00  |          |        V|Q         |          |
12+15      7.3427     16.75  |          |         V Q        |          |
12+20      7.4615     17.24  |          |         V Q        |          |
12+25      7.5839     17.78  |          |         V  Q       |          |
12+30      7.7079     18.00  |          |          |V  Q     |          |
12+35      7.8347     18.41  |          |          |V  Q     |          |
12+40      7.9668     19.18  |          |          |V   Q    |          |
12+45      8.1005     19.41  |          |          | V  Q    |          |
12+50      8.2359     19.66  |          |          | V   Q   |          |
12+55      8.3741     20.06  |          |          |  V  Q   |          |
13+ 0      8.5132     20.20  |          |          |  V  Q   |          |
13+ 5      8.6578     20.99  |          |          |  V   Q  |          |
13+10      8.8144     22.75  |          |          |   V     Q          |
13+15      8.9748     23.29  |          |          |   V      |Q         |
13+20      9.1369     23.54  |          |          |    V     |Q         |
13+25      9.3000     23.68  |          |          |    V     |Q         |
13+30      9.4637     23.77  |          |          |     V    |Q         |
13+35      9.6168     22.23  |          |          |     V  Q |          |
13+40      9.7442     18.51  |          |          |   Q V    |          |
13+45      9.8638     17.35  |          |          |  Q   V   |          |
13+50      9.9797     16.83  |          |          | Q    V   |          |
13+55     10.0935     16.53  |          |          | Q    V   |          |
14+ 0     10.2061     16.35  |          |          |Q      V  |          |
14+ 5     10.3219     16.81  |          |          | Q     V  |          |
14+10     10.4464     18.08  |          |          |   Q   V  |          |
14+15     10.5739     18.51  |          |          |   Q    V |          |
14+20     10.7017     18.55  |          |          |   Q    V |          |
14+25     10.8278     18.32  |          |          |   Q    V |          |
14+30     10.9537     18.28  |          |          |   Q     V          |
14+35     11.0796     18.27  |          |          |   Q     V          |
14+40     11.2055     18.28  |          |          |   Q     V          |
14+45     11.3312     18.26  |          |          |   Q      |V         |
14+50     11.4560     18.11  |          |          |   Q      |V         |
14+55     11.5783     17.76  |          |          |  Q       |V         |
15+ 0     11.6998     17.65  |          |          |  Q       | V        |
15+ 5     11.8201     17.46  |          |          |  Q       | V        |
15+10     11.9378     17.09  |          |          | Q        | V        |
15+15     12.0547     16.97  |          |          | Q        |  V       |
15+20     12.1702     16.77  |          |          | Q        |  V       |
15+25     12.2831     16.39  |          |          |Q         |  V       |
15+30     12.3951     16.27  |          |          |Q         |   V      |
15+35     12.5028     15.63  |          |         Q          |   V      |
15+40     12.6008     14.23  |          |       Q  |         |   V      |
15+45     12.6958     13.79  |          |       Q  |         |    V     |
15+50     12.7894     13.59  |          |       Q  |         |    V     |
15+55     12.8822     13.48  |          |      Q   |         |    V     |
16+ 0     12.9745     13.41  |          |      Q   |         |    V     |
16+ 5     13.0516     11.20  |          |  Q       |         |     V    |
16+10     13.0932      6.04  |        Q |          |         |     V    |
16+15     13.1240      4.46  |    Q     |          |         |     V    |
16+20     13.1498      3.74  |   Q      |          |         |     V    |
16+25     13.1728      3.34  |   Q      |          |         |     V    |
16+30     13.1941      3.09  |   Q      |          |         |     V    |
16+35     13.2133      2.79  |  Q       |          |         |     V    |
```


Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

16+40	13.2293	2.32	Q				V
16+45	13.2445	2.22	Q				V
16+50	13.2595	2.17	Q				V
16+55	13.2742	2.14	Q				V
17+ 0	13.2888	2.12	Q				V
17+ 5	13.3054	2.40	Q				V
17+10	13.3266	3.08	Q				V
17+15	13.3492	3.29	Q				V
17+20	13.3725	3.38	Q				V
17+25	13.3962	3.44	Q				V
17+30	13.4201	3.47	Q				V
17+35	13.4441	3.49	Q				V
17+40	13.4683	3.51	Q				V
17+45	13.4925	3.51	Q				V
17+50	13.5156	3.36	Q				V
17+55	13.5365	3.02	Q				V
18+ 0	13.5565	2.92	Q				V
18+ 5	13.5763	2.87	Q				V
18+10	13.5959	2.84	Q				V
18+15	13.6153	2.83	Q				V
18+20	13.6347	2.82	Q				V
18+25	13.6541	2.81	Q				V
18+30	13.6734	2.81	Q				V
18+35	13.6917	2.66	Q				V
18+40	13.7077	2.32	Q				V
18+45	13.7230	2.22	Q				V
18+50	13.7369	2.02	Q				V
18+55	13.7483	1.65	Q				V
19+ 0	13.7589	1.53	Q				V
19+ 5	13.7700	1.62	Q				V
19+10	13.7833	1.93	Q				V
19+15	13.7971	2.01	Q				V
19+20	13.8123	2.20	Q				V
19+25	13.8299	2.56	Q				V
19+30	13.8483	2.68	Q				V
19+35	13.8662	2.59	Q				V
19+40	13.8819	2.28	Q				V
19+45	13.8970	2.20	Q				V
19+50	13.9109	2.01	Q				V
19+55	13.9223	1.65	Q				V
20+ 0	13.9328	1.53	Q				V
20+ 5	13.9440	1.62	Q				V
20+10	13.9573	1.93	Q				V
20+15	13.9711	2.01	Q				V
20+20	13.9852	2.05	Q				V
20+25	13.9995	2.07	Q				V
20+30	14.0139	2.09	Q				V
20+35	14.0283	2.10	Q				V
20+40	14.0428	2.11	Q				V
20+45	14.0573	2.11	Q				V
20+50	14.0708	1.96	Q				V
20+55	14.0820	1.62	Q				V
21+ 0	14.0924	1.51	Q				V
21+ 5	14.1035	1.61	Q				V
21+10	14.1167	1.93	Q				V
21+15	14.1306	2.01	Q				V
21+20	14.1437	1.91	Q				V
21+25	14.1546	1.58	Q				V
21+30	14.1649	1.50	Q				V
21+35	14.1760	1.60	Q				V
21+40	14.1892	1.93	Q				V
21+45	14.2031	2.01	Q				V
21+50	14.2162	1.91	Q				V
21+55	14.2271	1.58	Q				V
22+ 0	14.2374	1.50	Q				V
22+ 5	14.2485	1.60	Q				V
22+10	14.2617	1.93	Q				V
22+15	14.2756	2.01	Q				V
22+20	14.2887	1.91	Q				V
22+25	14.2996	1.58	Q				V
22+30	14.3099	1.50	Q				V
22+35	14.3200	1.46	Q				V
22+40	14.3299	1.44	Q				V
22+45	14.3397	1.42	Q				V
22+50	14.3494	1.41	Q				V
22+55	14.3591	1.40	Q				V
23+ 0	14.3687	1.40	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR102410

23+ 5	14.3784	1.40	|Q	|	|	|	V|
23+10	14.3881	1.40	|Q	|	|	|	V|
23+15	14.3977	1.40	|Q	|	|	|	V|
23+20	14.4074	1.40	|Q	|	|	|	V|
23+25	14.4171	1.40	|Q	|	|	|	V|
23+30	14.4267	1.40	|Q	|	|	|	V|
23+35	14.4364	1.40	|Q	|	|	|	V|
23+40	14.4461	1.40	|Q	|	|	|	V|
23+45	14.4557	1.40	|Q	|	|	|	V|
23+50	14.4654	1.40	|Q	|	|	|	V|
23+55	14.4750	1.40	|Q	|	|	|	V|
24+ 0	14.4847	1.40	|Q	|	|	|	V|
24+ 5	14.4924	1.11	|Q	|	|	|	V|
24+10	14.4954	0.43	Q	|	|	|	V|
24+15	14.4969	0.22	Q	|	|	|	V|
24+20	14.4977	0.13	Q	|	|	|	V|
24+25	14.4982	0.07	Q	|	|	|	V|
24+30	14.4985	0.04	Q	|	|	|	V|
24+35	14.4986	0.02	Q	|	|	|	V

3828PR1001100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1001100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 1 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.50	33.55

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.20	80.52

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.500(In)
Area Averaged 100-Year Rainfall = 1.200(In)

Point rain (area averaged) = 1.200(In)
Areal adjustment factor = 99.94 %
Adjusted average point rain = 1.199(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

Slope of intensity-duration curve for a 1 hour storm =0.5000

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	4.20	0.604	0.058	(0.060)	0.546
2	0.17	4.30	0.619	0.058	(0.062)	0.561
3	0.25	5.00	0.720	0.058	(0.072)	0.662
4	0.33	5.00	0.720	0.058	(0.072)	0.662
5	0.42	5.80	0.835	0.058	(0.083)	0.777
6	0.50	6.50	0.935	0.058	(0.094)	0.877
7	0.58	7.40	1.065	0.058	(0.106)	1.007
8	0.67	8.60	1.238	0.058	(0.124)	1.180
9	0.75	12.30	1.770	0.058	(0.177)	1.712
10	0.83	29.10	4.188	0.058	(0.419)	4.130
11	0.92	6.80	0.979	0.058	(0.098)	0.921
12	1.00	5.00	0.720	0.058	(0.072)	0.662
		(Loss Rate Not Used)			
Sum =		100.0			Sum = 13.7

Flood volume = Effective rainfall 1.14(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 6.4(Ac.Ft)
Total soil loss = 0.06(In)
Total soil loss = 0.324(Ac.Ft)
Total rainfall = 1.20(In)
Flood volume = 277978.1 Cubic Feet
Total soil loss = 14131.7 Cubic Feet

Peak flow rate of this hydrograph = 176.999(CFS)

++

1 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	50.0	100.0	150.0	200.0
0+ 5	0.0525	7.62	VQ				
0+10	0.2303	25.82	V Q				
0+15	0.4592	33.23	V Q				
0+20	0.7293	39.22	V Q				
0+25	1.0276	43.32	V Q				
0+30	1.3714	49.92	VQ				
0+35	1.7642	57.03	Q				
0+40	2.2179	65.89	Q				
0+45	2.7771	81.18	QV				
0+50	3.7090	135.32	V Q				
0+55	4.9280	177.00	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

```
                                                                3828PR1001100
   1+ 0       5.5857     95.50  |         |        Q|         |    V    |
   1+ 5       5.9868     58.24  |         |Q        |         |      V  |
   1+10       6.1686     26.39  |    Q    |         |         |       V |
   1+15       6.2711     14.88  | Q       |         |         |        V|
   1+20       6.3310      8.71  |Q        |         |         |        V|
   1+25       6.3681      5.38  |Q        |         |         |        V|
   1+30       6.3778      1.41  Q         |         |         |        V|
   1+35       6.3815      0.54  Q         |         |         |         V
-------------------------------------------------------------------------
```

3828PR1003100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1003100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 3 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	0.80	53.68

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.86	124.81

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 0.800(In)
Area Averaged 100-Year Rainfall = 1.860(In)

Point rain (area averaged) = 1.860(In)
Areal adjustment factor = 99.97 %
Adjusted average point rain = 1.859(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	1.30	0.290	(0.058)	0.029	0.261
2	0.17	1.30	0.290	(0.058)	0.029	0.261
3	0.25	1.10	0.245	(0.058)	0.025	0.221
4	0.33	1.50	0.335	(0.058)	0.033	0.301
5	0.42	1.50	0.335	(0.058)	0.033	0.301
6	0.50	1.80	0.402	(0.058)	0.040	0.361
7	0.58	1.50	0.335	(0.058)	0.033	0.301
8	0.67	1.80	0.402	(0.058)	0.040	0.361
9	0.75	1.80	0.402	(0.058)	0.040	0.361
10	0.83	1.50	0.335	(0.058)	0.033	0.301
11	0.92	1.60	0.357	(0.058)	0.036	0.321
12	1.00	1.80	0.402	(0.058)	0.040	0.361
13	1.08	2.20	0.491	(0.058)	0.049	0.442
14	1.17	2.20	0.491	(0.058)	0.049	0.442
15	1.25	2.20	0.491	(0.058)	0.049	0.442
16	1.33	2.00	0.446	(0.058)	0.045	0.402
17	1.42	2.60	0.580	(0.058)	0.058	0.522
18	1.50	2.70	0.602	0.058	(0.060)	0.544
19	1.58	2.40	0.536	(0.058)	0.054	0.482
20	1.67	2.70	0.602	0.058	(0.060)	0.544
21	1.75	3.30	0.736	0.058	(0.074)	0.678
22	1.83	3.10	0.692	0.058	(0.069)	0.634
23	1.92	2.90	0.647	0.058	(0.065)	0.589
24	2.00	3.00	0.669	0.058	(0.067)	0.611
25	2.08	3.10	0.692	0.058	(0.069)	0.634
26	2.17	4.20	0.937	0.058	(0.094)	0.879
27	2.25	5.00	1.116	0.058	(0.112)	1.058
28	2.33	3.50	0.781	0.058	(0.078)	0.723
29	2.42	6.80	1.517	0.058	(0.152)	1.459
30	2.50	7.30	1.629	0.058	(0.163)	1.571
31	2.58	8.20	1.830	0.058	(0.183)	1.772
32	2.67	5.90	1.316	0.058	(0.132)	1.258
33	2.75	2.00	0.446	(0.058)	0.045	0.402
34	2.83	1.80	0.402	(0.058)	0.040	0.361
35	2.92	1.80	0.402	(0.058)	0.040	0.361
36	3.00	0.60	0.134	(0.058)	0.013	0.120
		(Loss Rate Not Used)				
Sum =		100.0			Sum =	20.6

Flood volume = Effective rainfall 1.72(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 9.6(Ac.Ft)
Total soil loss = 0.14(In)
Total soil loss = 0.777(Ac.Ft)
Total rainfall = 1.86(In)
Flood volume = 419079.2 Cubic Feet
Total soil loss = 33833.6 Cubic Feet

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1003100

Peak flow rate of this hydrograph = 103.548(CFS)

3 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 50.0 100.0 150.0 200.0
0+ 5	0.0251	3.64	Q
0+10	0.1094	12.24	V Q
0+15	0.2080	14.32	V Q
0+20	0.3136	15.33	V Q
0+25	0.4392	18.24	V Q
0+30	0.5779	20.14	V Q
0+35	0.7280	21.81	VQ
0+40	0.8770	21.63	VQ
0+45	1.0380	23.37	Q
0+50	1.1968	23.07	Q
0+55	1.3459	21.65	QV
1+ 0	1.5000	22.38	Q V
1+ 5	1.6710	24.83	Q V
1+10	1.8627	27.83	Q V
1+15	2.0613	28.83	Q V
1+20	2.2591	28.72	Q V
1+25	2.4611	29.32	Q V
1+30	2.6910	33.38	Q V
1+35	2.9279	34.40	Q V
1+40	3.1617	33.95	Q V
1+45	3.4206	37.59	Q V
1+50	3.7095	41.94	Q V
1+55	3.9950	41.46	Q V
2+ 0	4.2749	40.64	Q V
2+ 5	4.5602	41.43	Q V
2+10	4.8751	45.73	Q V
2+15	5.2651	56.63	Q V
2+20	5.6816	60.48	Q V
2+25	6.1133	62.68	Q V
2+30	6.7095	86.57	Q V
2+35	7.3973	99.87	Q V
2+40	8.1105	103.55	Q V
2+45	8.6543	78.97	Q V
2+50	8.9795	47.23	Q V
2+55	9.2275	36.01	Q V
3+ 0	9.4204	28.01	Q V
3+ 5	9.5268	15.45	Q V
3+10	9.5762	7.18	Q V
3+15	9.6004	3.51	Q V
3+20	9.6113	1.59	Q V
3+25	9.6172	0.85	Q V
3+30	9.6201	0.42	Q V
3+35	9.6207	0.10	Q V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1006100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR1006100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 6 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.15	77.16

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	2.50	167.75

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.150(In)
Area Averaged 100-Year Rainfall = 2.500(In)

Point rain (area averaged) = 2.500(In)
Areal adjustment factor = 99.98 %
Adjusted average point rain = 2.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum = 100.000	Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.50	0.150	(0.058)	0.015	0.135
2	0.17	0.60	0.180	(0.058)	0.018	0.162
3	0.25	0.60	0.180	(0.058)	0.018	0.162
4	0.33	0.60	0.180	(0.058)	0.018	0.162
5	0.42	0.60	0.180	(0.058)	0.018	0.162
6	0.50	0.70	0.210	(0.058)	0.021	0.189
7	0.58	0.70	0.210	(0.058)	0.021	0.189
8	0.67	0.70	0.210	(0.058)	0.021	0.189
9	0.75	0.70	0.210	(0.058)	0.021	0.189
10	0.83	0.70	0.210	(0.058)	0.021	0.189
11	0.92	0.70	0.210	(0.058)	0.021	0.189
12	1.00	0.80	0.240	(0.058)	0.024	0.216
13	1.08	0.80	0.240	(0.058)	0.024	0.216
14	1.17	0.80	0.240	(0.058)	0.024	0.216
15	1.25	0.80	0.240	(0.058)	0.024	0.216
16	1.33	0.80	0.240	(0.058)	0.024	0.216
17	1.42	0.80	0.240	(0.058)	0.024	0.216
18	1.50	0.80	0.240	(0.058)	0.024	0.216
19	1.58	0.80	0.240	(0.058)	0.024	0.216
20	1.67	0.80	0.240	(0.058)	0.024	0.216
21	1.75	0.80	0.240	(0.058)	0.024	0.216
22	1.83	0.80	0.240	(0.058)	0.024	0.216
23	1.92	0.80	0.240	(0.058)	0.024	0.216
24	2.00	0.90	0.270	(0.058)	0.027	0.243
25	2.08	0.80	0.240	(0.058)	0.024	0.216
26	2.17	0.90	0.270	(0.058)	0.027	0.243
27	2.25	0.90	0.270	(0.058)	0.027	0.243
28	2.33	0.90	0.270	(0.058)	0.027	0.243
29	2.42	0.90	0.270	(0.058)	0.027	0.243
30	2.50	0.90	0.270	(0.058)	0.027	0.243
31	2.58	0.90	0.270	(0.058)	0.027	0.243
32	2.67	0.90	0.270	(0.058)	0.027	0.243
33	2.75	1.00	0.300	(0.058)	0.030	0.270
34	2.83	1.00	0.300	(0.058)	0.030	0.270
35	2.92	1.00	0.300	(0.058)	0.030	0.270
36	3.00	1.00	0.300	(0.058)	0.030	0.270
37	3.08	1.00	0.300	(0.058)	0.030	0.270
38	3.17	1.10	0.330	(0.058)	0.033	0.297
39	3.25	1.10	0.330	(0.058)	0.033	0.297
40	3.33	1.10	0.330	(0.058)	0.033	0.297
41	3.42	1.20	0.360	(0.058)	0.036	0.324
42	3.50	1.30	0.390	(0.058)	0.039	0.351
43	3.58	1.40	0.420	(0.058)	0.042	0.378
44	3.67	1.40	0.420	(0.058)	0.042	0.378
45	3.75	1.50	0.450	(0.058)	0.045	0.405
46	3.83	1.50	0.450	(0.058)	0.045	0.405

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	1.60	0.480	(	0.058)	0.048	0.432
48	4.00	1.60	0.480	(	0.058)	0.048	0.432
49	4.08	1.70	0.510	(	0.058)	0.051	0.459
50	4.17	1.80	0.540	(	0.058)	0.054	0.486
51	4.25	1.90	0.570	(	0.058)	0.057	0.513
52	4.33	2.00	0.600		0.058	(0.060)	0.542
53	4.42	2.10	0.630		0.058	(0.063)	0.572
54	4.50	2.10	0.630		0.058	(0.063)	0.572
55	4.58	2.20	0.660		0.058	(0.066)	0.602
56	4.67	2.30	0.690		0.058	(0.069)	0.632
57	4.75	2.40	0.720		0.058	(0.072)	0.662
58	4.83	2.40	0.720		0.058	(0.072)	0.662
59	4.92	2.50	0.750		0.058	(0.075)	0.692
60	5.00	2.60	0.780		0.058	(0.078)	0.722
61	5.08	3.10	0.930		0.058	(0.093)	0.872
62	5.17	3.60	1.080		0.058	(0.108)	1.022
63	5.25	3.90	1.170		0.058	(0.117)	1.112
64	5.33	4.20	1.260		0.058	(0.126)	1.202
65	5.42	4.70	1.410		0.058	(0.141)	1.352
66	5.50	5.60	1.680		0.058	(0.168)	1.622
67	5.58	1.90	0.570	(	0.058)	0.057	0.513
68	5.67	0.90	0.270	(	0.058)	0.027	0.243
69	5.75	0.60	0.180	(	0.058)	0.018	0.162
70	5.83	0.50	0.150	(	0.058)	0.015	0.135
71	5.92	0.30	0.090	(	0.058)	0.009	0.081
72	6.00	0.20	0.060	(	0.058)	0.006	0.054

(Loss Rate Not Used)

Sum = 100.0 Sum = 27.5

Flood volume = Effective rainfall 2.29(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 12.8(Ac.Ft)
Total soil loss = 0.21(In)
Total soil loss = 1.164(Ac.Ft)
Total rainfall = 2.50(In)
Flood volume = 558070.0 Cubic Feet
Total soil loss = 50722.1 Cubic Feet

Peak flow rate of this hydrograph = 89.787(CFS)

++

6 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	22.5	45.0	67.5	90.0
0+ 5	0.0130	1.88	Q				
0+10	0.0591	6.70	V Q				
0+15	0.1208	8.96	V Q				
0+20	0.1887	9.86	V Q				
0+25	0.2599	10.33	V Q				
0+30	0.3356	11.00	V Q				
0+35	0.4187	12.06	V Q				
0+40	0.5046	12.48	V Q				
0+45	0.5915	12.62	V Q				
0+50	0.6790	12.69	V Q				
0+55	0.7667	12.74	V Q				
1+ 0	0.8572	13.14	V Q				
1+ 5	0.9539	14.05	V Q				
1+10	1.0526	14.32	V Q				
1+15	1.1521	14.45	V Q				
1+20	1.2521	14.52	V Q				
1+25	1.3524	14.56	V Q				
1+30	1.4528	14.59	V Q				
1+35	1.5535	14.61	V Q				
1+40	1.6541	14.61	VQ				
1+45	1.7547	14.61	VQ				
1+50	1.8553	14.61	VQ				
1+55	1.9560	14.61	Q				
2+ 0	2.0592	14.99	Q				
2+ 5	2.1659	15.50	Q				
2+10	2.2710	15.26	QV				
2+15	2.3812	16.00	Q				
2+20	2.4929	16.22	Q				
2+25	2.6053	16.32	QV				
2+30	2.7181	16.37	QV				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR1006100

2+35	2.8311	16.41	QV
2+40	2.9441	16.42	Q V
2+45	3.0599	16.81	Q V
2+50	3.1819	17.70	Q V
2+55	3.3057	17.98	Q V
3+ 0	3.4303	18.10	Q V
3+ 5	3.5555	18.17	Q V
3+10	3.6835	18.59	Q V
3+15	3.8179	19.51	Q V
3+20	3.9542	19.80	Q V
3+25	4.0941	20.30	Q V
3+30	4.2431	21.64	Q V
3+35	4.4030	23.22	Q V
3+40	4.5720	24.54	Q V
3+45	4.7470	25.40	Q V
3+50	4.9297	26.53	Q V
3+55	5.1178	27.32	Q V
4+ 0	5.3136	28.43	Q V
4+ 5	5.5147	29.20	Q V
4+10	5.7258	30.65	Q V
4+15	5.9482	32.29	Q V
4+20	6.1826	34.05	Q V
4+25	6.4300	35.91	Q V
4+30	6.6879	37.45	Q V
4+35	6.9527	38.45	Q V
4+40	7.2293	40.16	Q V
4+45	7.5189	42.05	Q V
4+50	7.8190	43.58	Q V
4+55	8.1260	44.57	Q V
5+ 0	8.4446	46.26	Q V
5+ 5	8.7876	49.80	Q V
5+10	9.1828	57.38	Q V
5+15	9.6329	65.36	QV
5+20	10.1284	71.94	Q
5+25	10.6730	79.07	V Q
5+30	11.2913	89.79	V Q
5+35	11.8822	85.80	VQ
5+40	12.2238	49.60	Q V
5+45	12.4328	30.34	Q V
5+50	12.5742	20.54	Q V
5+55	12.6751	14.65	Q V
6+ 0	12.7420	9.72	Q V
6+ 5	12.7825	5.87	Q V
6+10	12.7976	2.19	Q V
6+15	12.8048	1.04	Q V
6+20	12.8085	0.54	Q V
6+25	12.8104	0.28	Q V
6+30	12.8112	0.12	Q V
6+35	12.8115	0.04	Q V

3828PR10024100

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0
Study date 07/31/20 File: 3828PR10024100.out

++

Riverside County Synthetic Unit Hydrology Method
RCFC & WCD Manual date - April 1978

Program License Serial Number 6400

English (in-lb) Input Units Used
English Rainfall Data (Inches) Input Values Used

English Units used in output format

TEI JOB 3828
OPTION 1 - HIGH CUBE
PROPOSED CONDITION 100-YEAR STORM EVENT

Drainage Area = 67.10(Ac.) = 0.105 Sq. Mi.
Drainage Area for Depth-Area Areal Adjustment = 67.10(Ac.) = 0.105 Sq. Mi.
Length along longest watercourse = 3400.00(Ft.)
Length along longest watercourse measured to centroid = 1280.00(Ft.)
Length along longest watercourse = 0.644 Mi.
Length along longest watercourse measured to centroid = 0.242 Mi.
Difference in elevation = 44.00(Ft.)
Slope along watercourse = 68.3294 Ft./Mi.
Average Manning's 'N' = 0.015
Lag time = 0.080 Hr.
Lag time = 4.78 Min.
25% of lag time = 1.19 Min.
40% of lag time = 1.91 Min.
Unit time = 5.00 Min.
Duration of storm = 24 Hour(s)
User Entered Base Flow = 0.00(CFS)

2 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	1.75	117.42

100 YEAR Area rainfall data:

Area(Ac.)[1]	Rainfall(In)[2]	Weighting[1*2]
67.10	4.50	301.95

STORM EVENT (YEAR) = 100.00
Area Averaged 2-Year Rainfall = 1.750(In)
Area Averaged 100-Year Rainfall = 4.500(In)

Point rain (area averaged) = 4.500(In)
Areal adjustment factor = 99.99 %
Adjusted average point rain = 4.499(In)

Sub-Area Data:

Area(Ac.)	Runoff Index	Impervious %
67.100	56.00	0.900

Total Area Entered = 67.10(Ac.)

RI AMC2	RI AMC-3	Infil. Rate (In/Hr)	Impervious (Dec.%)	Adj. Infil. Rate (In/Hr)	Area% (Dec.)	F (In/Hr)
56.0	74.8	0.305	0.900	0.058	1.000	0.058
					Sum (F) =	0.058

Area averaged mean soil loss (F) (In/Hr) = 0.058
Minimum soil loss rate ((In/Hr)) = 0.029
(for 24 hour storm duration)
Soil low loss rate (decimal) = 0.100

U n i t H y d r o g r a p h
VALLEY S-Curve

Unit Hydrograph Data

Unit time period (hrs)		Time % of lag	Distribution Graph %	Unit Hydrograph (CFS)
1	0.083	104.614	20.612	13.939
2	0.167	209.229	48.679	32.919
3	0.250	313.843	14.978	10.129
4	0.333	418.458	6.821	4.613
5	0.417	523.072	3.802	2.571
6	0.500	627.687	2.435	1.647
7	0.583	732.301	1.462	0.989
8	0.667	836.916	1.210	0.818
		Sum =	100.000 Sum=	67.624

The following loss rate calculations reflect use of the minimum calculated loss rate subtracted from the Storm Rain to produce the maximum Effective Rain value

Unit Time (Hr.)	Pattern Percent	Storm Rain (In/Hr)	Loss rate(In./Hr) Max	Low	Effective (In/Hr)
1	0.08	0.07	0.036	(0.103)	0.004	0.032
2	0.17	0.07	0.036	(0.102)	0.004	0.032
3	0.25	0.07	0.036	(0.102)	0.004	0.032
4	0.33	0.10	0.054	(0.102)	0.005	0.049
5	0.42	0.10	0.054	(0.101)	0.005	0.049
6	0.50	0.10	0.054	(0.101)	0.005	0.049
7	0.58	0.10	0.054	(0.100)	0.005	0.049
8	0.67	0.10	0.054	(0.100)	0.005	0.049
9	0.75	0.10	0.054	(0.100)	0.005	0.049
10	0.83	0.13	0.072	(0.099)	0.007	0.065
11	0.92	0.13	0.072	(0.099)	0.007	0.065
12	1.00	0.13	0.072	(0.099)	0.007	0.065
13	1.08	0.10	0.054	(0.098)	0.005	0.049
14	1.17	0.10	0.054	(0.098)	0.005	0.049
15	1.25	0.10	0.054	(0.097)	0.005	0.049
16	1.33	0.10	0.054	(0.097)	0.005	0.049
17	1.42	0.10	0.054	(0.097)	0.005	0.049
18	1.50	0.10	0.054	(0.096)	0.005	0.049
19	1.58	0.10	0.054	(0.096)	0.005	0.049
20	1.67	0.10	0.054	(0.095)	0.005	0.049
21	1.75	0.10	0.054	(0.095)	0.005	0.049
22	1.83	0.13	0.072	(0.095)	0.007	0.065
23	1.92	0.13	0.072	(0.094)	0.007	0.065
24	2.00	0.13	0.072	(0.094)	0.007	0.065
25	2.08	0.13	0.072	(0.094)	0.007	0.065
26	2.17	0.13	0.072	(0.093)	0.007	0.065
27	2.25	0.13	0.072	(0.093)	0.007	0.065
28	2.33	0.13	0.072	(0.092)	0.007	0.065
29	2.42	0.13	0.072	(0.092)	0.007	0.065
30	2.50	0.13	0.072	(0.092)	0.007	0.065
31	2.58	0.17	0.090	(0.091)	0.009	0.081
32	2.67	0.17	0.090	(0.091)	0.009	0.081
33	2.75	0.17	0.090	(0.091)	0.009	0.081
34	2.83	0.17	0.090	(0.090)	0.009	0.081
35	2.92	0.17	0.090	(0.090)	0.009	0.081
36	3.00	0.17	0.090	(0.089)	0.009	0.081
37	3.08	0.17	0.090	(0.089)	0.009	0.081
38	3.17	0.17	0.090	(0.089)	0.009	0.081
39	3.25	0.17	0.090	(0.088)	0.009	0.081
40	3.33	0.17	0.090	(0.088)	0.009	0.081
41	3.42	0.17	0.090	(0.088)	0.009	0.081
42	3.50	0.17	0.090	(0.087)	0.009	0.081
43	3.58	0.17	0.090	(0.087)	0.009	0.081
44	3.67	0.17	0.090	(0.086)	0.009	0.081
45	3.75	0.17	0.090	(0.086)	0.009	0.081
46	3.83	0.20	0.108	(0.086)	0.011	0.097

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

47	3.92	0.20	0.108	(0.085)	0.011	0.097
48	4.00	0.20	0.108	(0.085)	0.011	0.097
49	4.08	0.20	0.108	(0.085)	0.011	0.097
50	4.17	0.20	0.108	(0.084)	0.011	0.097
51	4.25	0.20	0.108	(0.084)	0.011	0.097
52	4.33	0.23	0.126	(0.084)	0.013	0.113
53	4.42	0.23	0.126	(0.083)	0.013	0.113
54	4.50	0.23	0.126	(0.083)	0.013	0.113
55	4.58	0.23	0.126	(0.082)	0.013	0.113
56	4.67	0.23	0.126	(0.082)	0.013	0.113
57	4.75	0.23	0.126	(0.082)	0.013	0.113
58	4.83	0.27	0.144	(0.081)	0.014	0.130
59	4.92	0.27	0.144	(0.081)	0.014	0.130
60	5.00	0.27	0.144	(0.081)	0.014	0.130
61	5.08	0.20	0.108	(0.080)	0.011	0.097
62	5.17	0.20	0.108	(0.080)	0.011	0.097
63	5.25	0.20	0.108	(0.080)	0.011	0.097
64	5.33	0.23	0.126	(0.079)	0.013	0.113
65	5.42	0.23	0.126	(0.079)	0.013	0.113
66	5.50	0.23	0.126	(0.079)	0.013	0.113
67	5.58	0.27	0.144	(0.078)	0.014	0.130
68	5.67	0.27	0.144	(0.078)	0.014	0.130
69	5.75	0.27	0.144	(0.078)	0.014	0.130
70	5.83	0.27	0.144	(0.077)	0.014	0.130
71	5.92	0.27	0.144	(0.077)	0.014	0.130
72	6.00	0.27	0.144	(0.077)	0.014	0.130
73	6.08	0.30	0.162	(0.076)	0.016	0.146
74	6.17	0.30	0.162	(0.076)	0.016	0.146
75	6.25	0.30	0.162	(0.076)	0.016	0.146
76	6.33	0.30	0.162	(0.075)	0.016	0.146
77	6.42	0.30	0.162	(0.075)	0.016	0.146
78	6.50	0.30	0.162	(0.075)	0.016	0.146
79	6.58	0.33	0.180	(0.074)	0.018	0.162
80	6.67	0.33	0.180	(0.074)	0.018	0.162
81	6.75	0.33	0.180	(0.074)	0.018	0.162
82	6.83	0.33	0.180	(0.073)	0.018	0.162
83	6.92	0.33	0.180	(0.073)	0.018	0.162
84	7.00	0.33	0.180	(0.073)	0.018	0.162
85	7.08	0.33	0.180	(0.072)	0.018	0.162
86	7.17	0.33	0.180	(0.072)	0.018	0.162
87	7.25	0.33	0.180	(0.072)	0.018	0.162
88	7.33	0.37	0.198	(0.071)	0.020	0.178
89	7.42	0.37	0.198	(0.071)	0.020	0.178
90	7.50	0.37	0.198	(0.071)	0.020	0.178
91	7.58	0.40	0.216	(0.070)	0.022	0.194
92	7.67	0.40	0.216	(0.070)	0.022	0.194
93	7.75	0.40	0.216	(0.070)	0.022	0.194
94	7.83	0.43	0.234	(0.069)	0.023	0.211
95	7.92	0.43	0.234	(0.069)	0.023	0.211
96	8.00	0.43	0.234	(0.069)	0.023	0.211
97	8.08	0.50	0.270	(0.068)	0.027	0.243
98	8.17	0.50	0.270	(0.068)	0.027	0.243
99	8.25	0.50	0.270	(0.068)	0.027	0.243
100	8.33	0.50	0.270	(0.067)	0.027	0.243
101	8.42	0.50	0.270	(0.067)	0.027	0.243
102	8.50	0.50	0.270	(0.067)	0.027	0.243
103	8.58	0.53	0.288	(0.066)	0.029	0.259
104	8.67	0.53	0.288	(0.066)	0.029	0.259
105	8.75	0.53	0.288	(0.066)	0.029	0.259
106	8.83	0.57	0.306	(0.066)	0.031	0.275
107	8.92	0.57	0.306	(0.065)	0.031	0.275
108	9.00	0.57	0.306	(0.065)	0.031	0.275
109	9.08	0.63	0.342	(0.065)	0.034	0.308
110	9.17	0.63	0.342	(0.064)	0.034	0.308
111	9.25	0.63	0.342	(0.064)	0.034	0.308
112	9.33	0.67	0.360	(0.064)	0.036	0.324
113	9.42	0.67	0.360	(0.063)	0.036	0.324
114	9.50	0.67	0.360	(0.063)	0.036	0.324
115	9.58	0.70	0.378	(0.063)	0.038	0.340
116	9.67	0.70	0.378	(0.062)	0.038	0.340
117	9.75	0.70	0.378	(0.062)	0.038	0.340
118	9.83	0.73	0.396	(0.062)	0.040	0.356
119	9.92	0.73	0.396	(0.062)	0.040	0.356
120	10.00	0.73	0.396	(0.061)	0.040	0.356
121	10.08	0.50	0.270	(0.061)	0.027	0.243
122	10.17	0.50	0.270	(0.061)	0.027	0.243
123	10.25	0.50	0.270	(0.060)	0.027	0.243

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

124	10.33	0.50	0.270	(0.060)	0.027	0.243
125	10.42	0.50	0.270	(0.060)	0.027	0.243
126	10.50	0.50	0.270	(0.060)	0.027	0.243
127	10.58	0.67	0.360	(0.059)	0.036	0.324
128	10.67	0.67	0.360	(0.059)	0.036	0.324
129	10.75	0.67	0.360	(0.059)	0.036	0.324
130	10.83	0.67	0.360	(0.058)	0.036	0.324
131	10.92	0.67	0.360	(0.058)	0.036	0.324
132	11.00	0.67	0.360	(0.058)	0.036	0.324
133	11.08	0.63	0.342	(0.057)	0.034	0.308
134	11.17	0.63	0.342	(0.057)	0.034	0.308
135	11.25	0.63	0.342	(0.057)	0.034	0.308
136	11.33	0.63	0.342	(0.057)	0.034	0.308
137	11.42	0.63	0.342	(0.056)	0.034	0.308
138	11.50	0.63	0.342	(0.056)	0.034	0.308
139	11.58	0.57	0.306	(0.056)	0.031	0.275
140	11.67	0.57	0.306	(0.056)	0.031	0.275
141	11.75	0.57	0.306	(0.055)	0.031	0.275
142	11.83	0.60	0.324	(0.055)	0.032	0.292
143	11.92	0.60	0.324	(0.055)	0.032	0.292
144	12.00	0.60	0.324	(0.054)	0.032	0.292
145	12.08	0.83	0.450	(0.054)	0.045	0.405
146	12.17	0.83	0.450	(0.054)	0.045	0.405
147	12.25	0.83	0.450	(0.054)	0.045	0.405
148	12.33	0.87	0.468	(0.053)	0.047	0.421
149	12.42	0.87	0.468	(0.053)	0.047	0.421
150	12.50	0.87	0.468	(0.053)	0.047	0.421
151	12.58	0.93	0.504	(0.053)	0.050	0.454
152	12.67	0.93	0.504	(0.052)	0.050	0.454
153	12.75	0.93	0.504	(0.052)	0.050	0.454
154	12.83	0.97	0.522	0.052	(0.052)	0.470
155	12.92	0.97	0.522	0.051	(0.052)	0.470
156	13.00	0.97	0.522	0.051	(0.052)	0.471
157	13.08	1.13	0.612	0.051	(0.061)	0.561
158	13.17	1.13	0.612	0.051	(0.061)	0.561
159	13.25	1.13	0.612	0.050	(0.061)	0.561
160	13.33	1.13	0.612	0.050	(0.061)	0.562
161	13.42	1.13	0.612	0.050	(0.061)	0.562
162	13.50	1.13	0.612	0.050	(0.061)	0.562
163	13.58	0.77	0.414	(0.049)	0.041	0.373
164	13.67	0.77	0.414	(0.049)	0.041	0.373
165	13.75	0.77	0.414	(0.049)	0.041	0.373
166	13.83	0.77	0.414	(0.049)	0.041	0.373
167	13.92	0.77	0.414	(0.048)	0.041	0.373
168	14.00	0.77	0.414	(0.048)	0.041	0.373
169	14.08	0.90	0.486	0.048	(0.049)	0.438
170	14.17	0.90	0.486	0.048	(0.049)	0.438
171	14.25	0.90	0.486	0.047	(0.049)	0.438
172	14.33	0.87	0.468	(0.047)	0.047	0.421
173	14.42	0.87	0.468	(0.047)	0.047	0.421
174	14.50	0.87	0.468	0.047	(0.047)	0.421
175	14.58	0.87	0.468	0.046	(0.047)	0.421
176	14.67	0.87	0.468	0.046	(0.047)	0.422
177	14.75	0.87	0.468	0.046	(0.047)	0.422
178	14.83	0.83	0.450	(0.046)	0.045	0.405
179	14.92	0.83	0.450	(0.046)	0.045	0.405
180	15.00	0.83	0.450	(0.045)	0.045	0.405
181	15.08	0.80	0.432	(0.045)	0.043	0.389
182	15.17	0.80	0.432	(0.045)	0.043	0.389
183	15.25	0.80	0.432	(0.045)	0.043	0.389
184	15.33	0.77	0.414	(0.044)	0.041	0.373
185	15.42	0.77	0.414	(0.044)	0.041	0.373
186	15.50	0.77	0.414	(0.044)	0.041	0.373
187	15.58	0.63	0.342	(0.044)	0.034	0.308
188	15.67	0.63	0.342	(0.043)	0.034	0.308
189	15.75	0.63	0.342	(0.043)	0.034	0.308
190	15.83	0.63	0.342	(0.043)	0.034	0.308
191	15.92	0.63	0.342	(0.043)	0.034	0.308
192	16.00	0.63	0.342	(0.043)	0.034	0.308
193	16.08	0.13	0.072	(0.042)	0.007	0.065
194	16.17	0.13	0.072	(0.042)	0.007	0.065
195	16.25	0.13	0.072	(0.042)	0.007	0.065
196	16.33	0.13	0.072	(0.042)	0.007	0.065
197	16.42	0.13	0.072	(0.042)	0.007	0.065
198	16.50	0.13	0.072	(0.041)	0.007	0.065
199	16.58	0.10	0.054	(0.041)	0.005	0.049
200	16.67	0.10	0.054	(0.041)	0.005	0.049

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

201	16.75	0.10	0.054	(0.041)	0.005	0.049
202	16.83	0.10	0.054	(0.040)	0.005	0.049
203	16.92	0.10	0.054	(0.040)	0.005	0.049
204	17.00	0.10	0.054	(0.040)	0.005	0.049
205	17.08	0.17	0.090	(0.040)	0.009	0.081
206	17.17	0.17	0.090	(0.040)	0.009	0.081
207	17.25	0.17	0.090	(0.039)	0.009	0.081
208	17.33	0.17	0.090	(0.039)	0.009	0.081
209	17.42	0.17	0.090	(0.039)	0.009	0.081
210	17.50	0.17	0.090	(0.039)	0.009	0.081
211	17.58	0.17	0.090	(0.039)	0.009	0.081
212	17.67	0.17	0.090	(0.038)	0.009	0.081
213	17.75	0.17	0.090	(0.038)	0.009	0.081
214	17.83	0.13	0.072	(0.038)	0.007	0.065
215	17.92	0.13	0.072	(0.038)	0.007	0.065
216	18.00	0.13	0.072	(0.038)	0.007	0.065
217	18.08	0.13	0.072	(0.038)	0.007	0.065
218	18.17	0.13	0.072	(0.037)	0.007	0.065
219	18.25	0.13	0.072	(0.037)	0.007	0.065
220	18.33	0.13	0.072	(0.037)	0.007	0.065
221	18.42	0.13	0.072	(0.037)	0.007	0.065
222	18.50	0.13	0.072	(0.037)	0.007	0.065
223	18.58	0.10	0.054	(0.036)	0.005	0.049
224	18.67	0.10	0.054	(0.036)	0.005	0.049
225	18.75	0.10	0.054	(0.036)	0.005	0.049
226	18.83	0.07	0.036	(0.036)	0.004	0.032
227	18.92	0.07	0.036	(0.036)	0.004	0.032
228	19.00	0.07	0.036	(0.036)	0.004	0.032
229	19.08	0.10	0.054	(0.035)	0.005	0.049
230	19.17	0.10	0.054	(0.035)	0.005	0.049
231	19.25	0.10	0.054	(0.035)	0.005	0.049
232	19.33	0.13	0.072	(0.035)	0.007	0.065
233	19.42	0.13	0.072	(0.035)	0.007	0.065
234	19.50	0.13	0.072	(0.035)	0.007	0.065
235	19.58	0.10	0.054	(0.034)	0.005	0.049
236	19.67	0.10	0.054	(0.034)	0.005	0.049
237	19.75	0.10	0.054	(0.034)	0.005	0.049
238	19.83	0.07	0.036	(0.034)	0.004	0.032
239	19.92	0.07	0.036	(0.034)	0.004	0.032
240	20.00	0.07	0.036	(0.034)	0.004	0.032
241	20.08	0.10	0.054	(0.034)	0.005	0.049
242	20.17	0.10	0.054	(0.033)	0.005	0.049
243	20.25	0.10	0.054	(0.033)	0.005	0.049
244	20.33	0.10	0.054	(0.033)	0.005	0.049
245	20.42	0.10	0.054	(0.033)	0.005	0.049
246	20.50	0.10	0.054	(0.033)	0.005	0.049
247	20.58	0.10	0.054	(0.033)	0.005	0.049
248	20.67	0.10	0.054	(0.033)	0.005	0.049
249	20.75	0.10	0.054	(0.032)	0.005	0.049
250	20.83	0.07	0.036	(0.032)	0.004	0.032
251	20.92	0.07	0.036	(0.032)	0.004	0.032
252	21.00	0.07	0.036	(0.032)	0.004	0.032
253	21.08	0.10	0.054	(0.032)	0.005	0.049
254	21.17	0.10	0.054	(0.032)	0.005	0.049
255	21.25	0.10	0.054	(0.032)	0.005	0.049
256	21.33	0.07	0.036	(0.032)	0.004	0.032
257	21.42	0.07	0.036	(0.031)	0.004	0.032
258	21.50	0.07	0.036	(0.031)	0.004	0.032
259	21.58	0.10	0.054	(0.031)	0.005	0.049
260	21.67	0.10	0.054	(0.031)	0.005	0.049
261	21.75	0.10	0.054	(0.031)	0.005	0.049
262	21.83	0.07	0.036	(0.031)	0.004	0.032
263	21.92	0.07	0.036	(0.031)	0.004	0.032
264	22.00	0.07	0.036	(0.031)	0.004	0.032
265	22.08	0.10	0.054	(0.031)	0.005	0.049
266	22.17	0.10	0.054	(0.030)	0.005	0.049
267	22.25	0.10	0.054	(0.030)	0.005	0.049
268	22.33	0.07	0.036	(0.030)	0.004	0.032
269	22.42	0.07	0.036	(0.030)	0.004	0.032
270	22.50	0.07	0.036	(0.030)	0.004	0.032
271	22.58	0.07	0.036	(0.030)	0.004	0.032
272	22.67	0.07	0.036	(0.030)	0.004	0.032
273	22.75	0.07	0.036	(0.030)	0.004	0.032
274	22.83	0.07	0.036	(0.030)	0.004	0.032
275	22.92	0.07	0.036	(0.030)	0.004	0.032
276	23.00	0.07	0.036	(0.030)	0.004	0.032
277	23.08	0.07	0.036	(0.030)	0.004	0.032

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

278	23.17	0.07	0.036	(	0.029)	0.004	0.032
279	23.25	0.07	0.036	(	0.029)	0.004	0.032
280	23.33	0.07	0.036	(	0.029)	0.004	0.032
281	23.42	0.07	0.036	(	0.029)	0.004	0.032
282	23.50	0.07	0.036	(	0.029)	0.004	0.032
283	23.58	0.07	0.036	(	0.029)	0.004	0.032
284	23.67	0.07	0.036	(	0.029)	0.004	0.032
285	23.75	0.07	0.036	(	0.029)	0.004	0.032
286	23.83	0.07	0.036	(	0.029)	0.004	0.032
287	23.92	0.07	0.036	(	0.029)	0.004	0.032
288	24.00	0.07	0.036	(	0.029)	0.004	0.032

(Loss Rate Not Used)

Sum = 100.0 Sum = 48.7

Flood volume = Effective rainfall 4.06(In)
times area 67.1(Ac.)/[(In)/(Ft.)] = 22.7(Ac.Ft)
Total soil loss = 0.44(In)
Total soil loss = 2.483(Ac.Ft)
Total rainfall = 4.50(In)
Flood volume = 987794.6 Cubic Feet
Total soil loss = 108140.2 Cubic Feet

Peak flow rate of this hydrograph = 37.852(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	10.0	20.0	30.0	40.0
0+ 5	0.0031	0.45	Q				
0+10	0.0136	1.52	VQ				
0+15	0.0263	1.85	VQ				
0+20	0.0416	2.22	V Q				
0+25	0.0612	2.84	V Q				
0+30	0.0822	3.06	V Q				
0+35	0.1040	3.16	V Q				
0+40	0.1263	3.23	V Q				
0+45	0.1487	3.26	V Q				
0+50	0.1728	3.50	V Q				
0+55	0.2007	4.05	V Q				
1+ 0	0.2297	4.21	V Q				
1+ 5	0.2576	4.06	V Q				
1+10	0.2822	3.57	V Q				
1+15	0.3058	3.43	V Q				
1+20	0.3291	3.37	V Q				
1+25	0.3521	3.34	V Q				
1+30	0.3749	3.32	V Q				
1+35	0.3977	3.30	V Q				
1+40	0.4203	3.29	V Q				
1+45	0.4430	3.29	V Q				
1+50	0.4672	3.51	V Q				
1+55	0.4950	4.05	V Q				
2+ 0	0.5240	4.21	V Q				
2+ 5	0.5536	4.29	V Q				
2+10	0.5834	4.33	|V Q				
2+15	0.6134	4.35	|V Q				
2+20	0.6435	4.37	|V Q				
2+25	0.6736	4.38	|V Q				
2+30	0.7038	4.38	|V Q				
2+35	0.7356	4.61	|V Q				
2+40	0.7710	5.14	|V Q				
2+45	0.8076	5.31	|V Q				
2+50	0.8446	5.38	|V Q				
2+55	0.8820	5.42	|V Q				
3+ 0	0.9195	5.45	|V Q				
3+ 5	0.9572	5.47	|V Q				
3+10	0.9949	5.48	|V Q				
3+15	1.0326	5.48	|V Q				
3+20	1.0704	5.48	|V Q				
3+25	1.1081	5.48	|V Q				
3+30	1.1459	5.48	| V Q				
3+35	1.1836	5.48	| V Q				
3+40	1.2213	5.48	| V Q				
3+45	1.2591	5.48	| V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3+50	1.2984	5.71	V Q				
3+55	1.3413	6.24	V Q				
4+ 0	1.3854	6.40	V Q				
4+ 5	1.4300	6.48	V Q				
4+10	1.4749	6.52	V Q				
4+15	1.5200	6.55	V Q				
4+20	1.5668	6.79	V Q				
4+25	1.6173	7.33	V Q				
4+30	1.6689	7.50	V Q				
4+35	1.7211	7.57	V Q				
4+40	1.7736	7.62	V Q				
4+45	1.8262	7.64	V Q				
4+50	1.8805	7.88	V Q				
4+55	1.9386	8.43	V Q				
5+ 0	1.9977	8.60	V Q				
5+ 5	2.0543	8.22	V Q				
5+10	2.1039	7.19	V Q				
5+15	2.1513	6.89	V Q				
5+20	2.1994	6.98	V Q				
5+25	2.2507	7.45	V Q				
5+30	2.3028	7.56	V Q				
5+35	2.3567	7.83	V Q				
5+40	2.4144	8.37	V Q				
5+45	2.4733	8.57	V Q				
5+50	2.5330	8.66	V Q				
5+55	2.5930	8.71	V Q				
6+ 0	2.6531	8.74	V Q				
6+ 5	2.7150	8.98	V Q				
6+10	2.7806	9.53	V Q				
6+15	2.8473	9.69	V Q				
6+20	2.9146	9.77	V Q				
6+25	2.9821	9.81	V Q				
6+30	3.0499	9.83	V Q				
6+35	3.1193	10.08	V Q				
6+40	3.1924	10.62	V Q				
6+45	3.2667	10.79	V Q				
6+50	3.3415	10.86	V Q				
6+55	3.4166	10.90	V Q				
7+ 0	3.4919	10.93	V Q				
7+ 5	3.5673	10.95	V Q				
7+10	3.6428	10.96	V Q				
7+15	3.7182	10.96	V Q				
7+20	3.7953	11.19	V Q				
7+25	3.8760	11.72	V Q				
7+30	3.9578	11.88	V Q				
7+35	4.0417	12.18	V Q				
7+40	4.1296	12.76	V Q				
7+45	4.2188	12.95	V Q				
7+50	4.3101	13.27	V Q				
7+55	4.4056	13.85	V Q				
8+ 0	4.5023	14.05	V Q				
8+ 5	4.6028	14.59	V Q				
8+10	4.7110	15.71	V Q				
8+15	4.8216	16.06	V Q				
8+20	4.9334	16.23	V Q				
8+25	5.0458	16.33	V Q				
8+30	5.1586	16.38	V Q				
8+35	5.2732	16.64	V Q				
8+40	5.3917	17.20	V Q				
8+45	5.5112	17.36	V Q				
8+50	5.6329	17.66	V Q				
8+55	5.7585	18.24	V Q				
9+ 0	5.8854	18.43	V Q				
9+ 5	6.0161	18.97	V Q				
9+10	6.1545	20.09	V Q				
9+15	6.2953	20.45	V Q				
9+20	6.4388	20.84	V Q				
9+25	6.5867	21.47	V Q				
9+30	6.7361	21.69	V Q				
9+35	6.8877	22.02	V Q				
9+40	7.0435	22.62	V Q				
9+45	7.2006	22.81	V Q				
9+50	7.3599	23.13	V Q				
9+55	7.5233	23.72	V Q				
10+ 0	7.6879	23.91	V Q				
10+ 5	7.8423	22.42	V Q				
10+10	7.9714	18.74	V Q				

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

3828PR10024100

10+15	8.0927	17.62	|	|	V Q	|	|	|
10+20	8.2105	17.11	|	|	V Q	|	|	|
10+25	8.3265	16.83	|	|	V Q	|	|	|
10+30	8.4411	16.64	|	|	V Q	|	|	|
10+35	8.5627	17.66	|	|	V Q	|	|	|
10+40	8.7021	20.24	|	|	V Q	|	|	|
10+45	8.8471	21.06	|	|	V |Q	|	|	|
10+50	8.9947	21.43	|	|	V |Q	|	|	|
10+55	9.1437	21.64	|	|	V |Q	|	|	|
11+ 0	9.2937	21.77	|	|	V |Q	|	|	|
11+ 5	9.4426	21.63	|	|	V |Q	|	|	|
11+10	9.5883	21.16	|	|	V |Q	|	|	|
11+15	9.7329	21.00	|	|	V Q	|	|	|
11+20	9.8770	20.92	|	|	V Q	|	|	|
11+25	10.0208	20.88	|	|	V Q	|	|	|
11+30	10.1644	20.85	|	|	V Q	|	|	|
11+35	10.3048	20.38	|	|	V Q	|	|	|
11+40	10.4378	19.30	|	|	VQ|	|	|	|
11+45	10.5684	18.98	|	|	Q |	|	|	|
11+50	10.6997	19.05	|	|	VQ|	|	|	|
11+55	10.8340	19.50	|	|	Q|	|	|	|
12+ 0	10.9690	19.61	|	|	Q|	|	|	|
12+ 5	11.1153	21.24	|	|	V|Q	|	|	|
12+10	11.2874	24.99	|	|	V| Q	|	|	|
12+15	11.4676	26.16	|	|	V Q	|	|	|
12+20	11.6530	26.93	|	|	V Q	|	|	|
12+25	11.8442	27.77	|	|	V Q	|	|	|
12+30	12.0379	28.12	|	|	|V Q	|	|	|
12+35	12.2359	28.76	|	|	|V Q	|	|	|
12+40	12.4422	29.96	|	|	|V Q|	|	|	|
12+45	12.6510	30.31	|	|	| V Q	|	|	|
12+50	12.8625	30.71	|	|	| V Q	|	|	|
12+55	13.0785	31.36	|	|	| V |Q	|	|	|
13+ 0	13.2960	31.59	|	|	| V |Q	|	|	|
13+ 5	13.5231	32.97	|	|	| V | Q	|	|	|
13+10	13.7712	36.02	|	|	| V | Q	|	|	|
13+15	14.0258	36.98	|	|	| V | Q	|	|	|
13+20	14.2836	37.42	|	|	| V | Q	|	|	|
13+25	14.5431	37.69	|	|	| V | Q	|	|	|
13+30	14.8038	37.85	|	|	| V | Q	|	|	|
13+35	15.0470	35.31	|	|	| V | Q	|	|	|
13+40	15.2477	29.14	|	|	| V Q|	|	|	|
13+45	15.4352	27.22	|	|	| Q |	|	|	|
13+50	15.6166	26.35	|	|	| QV |	|	|	|
13+55	15.7948	25.86	|	|	| Q V |	|	|	|
14+ 0	15.9707	25.55	|	|	| Q V |	|	|	|
14+ 5	16.1517	26.27	|	|	| Q V |	|	|	|
14+10	16.3464	28.28	|	|	| Q |	|	|	|
14+15	16.5458	28.95	|	|	| QV|	|	|	|
14+20	16.7457	29.02	|	|	| Q|	|	|	|
14+25	16.9428	28.62	|	|	| QV|	|	|	|
14+30	17.1395	28.56	|	|	| Q V	|	|	|
14+35	17.3361	28.55	|	|	| Q V	|	|	|
14+40	17.5329	28.57	|	|	| Q V	|	|	|
14+45	17.7296	28.56	|	|	| Q |V	|	|	|
14+50	17.9246	28.32	|	|	| Q |V	|	|	|
14+55	18.1157	27.75	|	|	| Q |V	|	|	|
15+ 0	18.3056	27.58	|	|	| Q | V	|	|	|
15+ 5	18.4934	27.27	|	|	| Q | V	|	|	|
15+10	18.6773	26.70	|	|	| Q | V	|	|	|
15+15	18.8599	26.51	|	|	| Q | V	|	|	|
15+20	19.0402	26.19	|	|	| Q | V	|	|	|
15+25	19.2165	25.60	|	|	| Q | V	|	|	|
15+30	19.3915	25.41	|	|	| Q | V	|	|	|
15+35	19.5596	24.41	|	|	| Q | V	|	|	|
15+40	19.7127	22.22	|	|	| Q | V	|	|	|
15+45	19.8611	21.54	|	|	|Q | V	|	|	|
15+50	20.0073	21.23	|	|	|Q | V	|	|	|
15+55	20.1522	21.05	|	|	|Q | V	|	|	|
16+ 0	20.2964	20.94	|	|	Q | V	|	|	|
16+ 5	20.4169	17.49	|	| Q	|	| V	|	|
16+10	20.4818	9.43	| Q|	|	|	| V	|	|
16+15	20.5298	6.97	| Q	|	|	| V	|	|
16+20	20.5701	5.85	| Q	|	|	| V	|	|
16+25	20.6061	5.22	| Q	|	|	| V	|	|
16+30	20.6393	4.82	| Q	|	|	| V	|	|
16+35	20.6693	4.36	| Q	|	|	| V	|	|

16+40	20.6942	3.62	Q				V
16+45	20.7181	3.46	Q				V
16+50	20.7414	3.39	Q				V
16+55	20.7644	3.34	Q				V
17+ 0	20.7873	3.32	Q				V
17+ 5	20.8131	3.75	Q				V
17+10	20.8462	4.81	Q				V
17+15	20.8816	5.13	Q				V
17+20	20.9180	5.28	Q				V
17+25	20.9549	5.37	Q				V
17+30	20.9923	5.42	Q				V
17+35	21.0298	5.45	Q				V
17+40	21.0676	5.48	Q				V
17+45	21.1053	5.48	Q				V
17+50	21.1415	5.25	Q				V
17+55	21.1740	4.72	Q				V
18+ 0	21.2054	4.56	Q				V
18+ 5	21.2362	4.48	Q				V
18+10	21.2668	4.44	Q				V
18+15	21.2972	4.41	Q				V
18+20	21.3275	4.40	Q				V
18+25	21.3577	4.38	Q				V
18+30	21.3879	4.38	Q				V
18+35	21.4165	4.16	Q				V
18+40	21.4415	3.62	Q				V
18+45	21.4653	3.46	Q				V
18+50	21.4871	3.16	Q				V
18+55	21.5049	2.58	Q				V
19+ 0	21.5213	2.39	Q				V
19+ 5	21.5388	2.53	Q				V
19+10	21.5595	3.01	Q				V
19+15	21.5811	3.14	Q				V
19+20	21.6047	3.43	Q				V
19+25	21.6322	3.99	Q				V
19+30	21.6610	4.18	Q				V
19+35	21.6889	4.05	Q				V
19+40	21.7135	3.57	Q				V
19+45	21.7371	3.43	Q				V
19+50	21.7588	3.15	Q				V
19+55	21.7766	2.58	Q				V
20+ 0	21.7931	2.39	Q				V
20+ 5	21.8105	2.53	Q				V
20+10	21.8312	3.01	Q				V
20+15	21.8528	3.14	Q				V
20+20	21.8749	3.20	Q				V
20+25	21.8972	3.23	Q				V
20+30	21.9196	3.26	Q				V
20+35	21.9422	3.27	Q				V
20+40	21.9648	3.29	Q				V
20+45	21.9874	3.29	Q				V
20+50	22.0085	3.06	Q				V
20+55	22.0259	2.53	Q				V
21+ 0	22.0422	2.36	Q				V
21+ 5	22.0596	2.52	Q				V
21+10	22.0803	3.01	Q				V
21+15	22.1019	3.14	Q				V
21+20	22.1224	2.98	Q				V
21+25	22.1395	2.47	Q				V
21+30	22.1555	2.33	Q				V
21+35	22.1728	2.50	Q				V
21+40	22.1935	3.01	Q				V
21+45	22.2151	3.14	Q				V
21+50	22.2356	2.98	Q				V
21+55	22.2527	2.47	Q				V
22+ 0	22.2688	2.33	Q				V
22+ 5	22.2860	2.50	Q				V
22+10	22.3067	3.01	Q				V
22+15	22.3284	3.14	Q				V
22+20	22.3489	2.98	Q				V
22+25	22.3659	2.47	Q				V
22+30	22.3820	2.33	Q				V
22+35	22.3976	2.28	Q				V
22+40	22.4131	2.25	Q				V
22+45	22.4284	2.22	Q				V
22+50	22.4436	2.21	Q				V
22+55	22.4587	2.19	Q				V
23+ 0	22.4738	2.19	Q				V

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

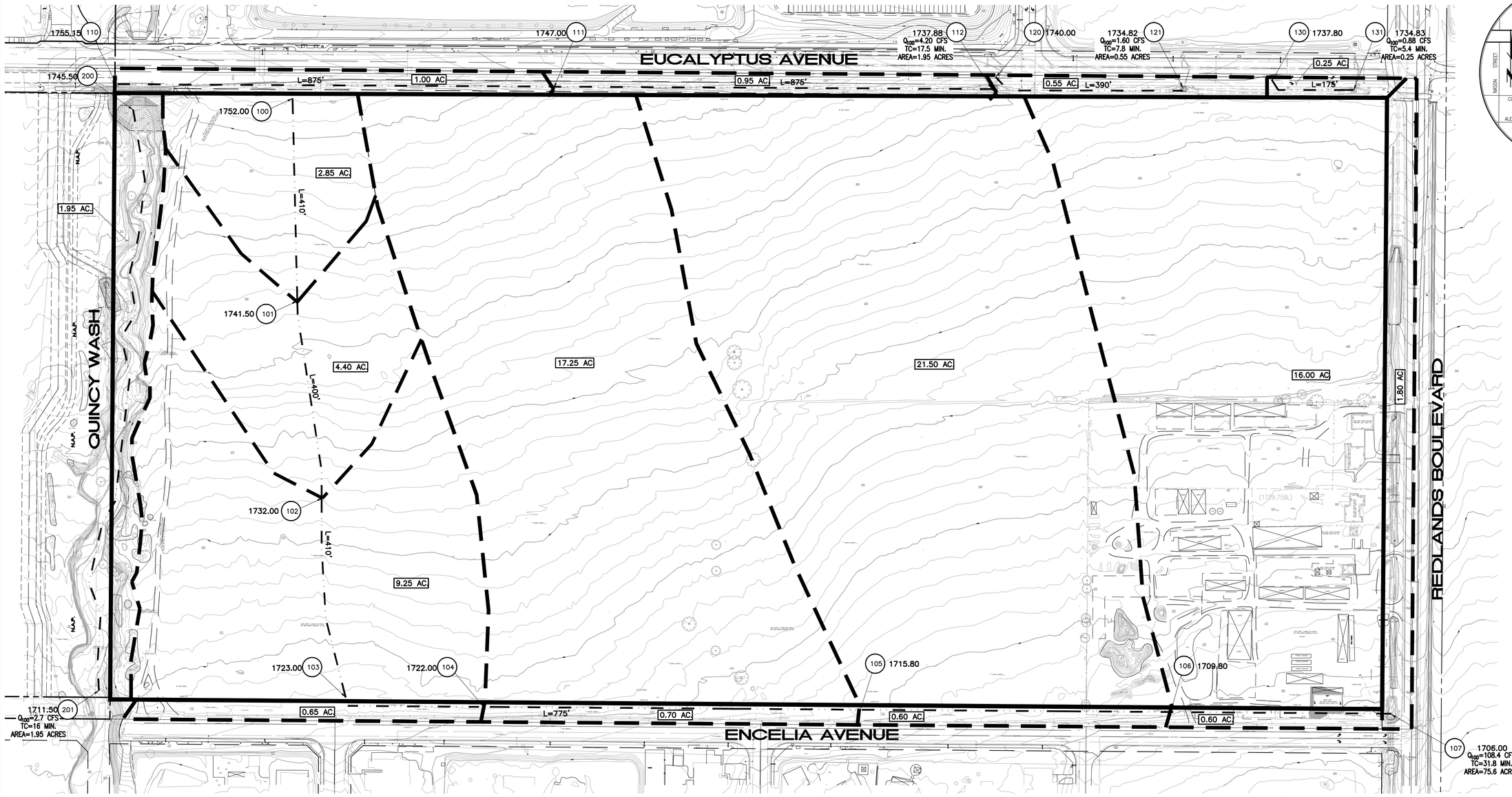
23+ 5	22.4889	2.19	Q				V
23+10	22.5040	2.19	Q				V
23+15	22.5191	2.19	Q				V
23+20	22.5342	2.19	Q				V
23+25	22.5493	2.19	Q				V
23+30	22.5644	2.19	Q				V
23+35	22.5795	2.19	Q				V
23+40	22.5946	2.19	Q				V
23+45	22.6097	2.19	Q				V
23+50	22.6248	2.19	Q				V
23+55	22.6399	2.19	Q				V
24+ 0	22.6549	2.19	Q				V
24+ 5	22.6669	1.74	Q				V
24+10	22.6716	0.67	Q				V
24+15	22.6739	0.34	Q				V
24+20	22.6753	0.20	Q				V
24+25	22.6761	0.11	Q				V
24+30	22.6765	0.06	Q				V
24+35	22.6766	0.03	Q				V

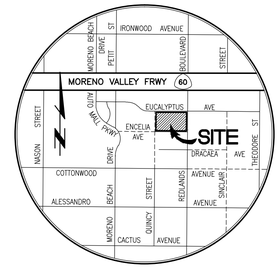
Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

APPENDIX D

HYDROLOGY MAP

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley





VICINITY MAP

N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

NOTE:
SEE PROPOSED CONDITION RATIONAL METHOD CALCULATIONS FOR OFFSITE STREET RUNS

0 50 100 200 300

SCALE:1"=100'

PEN19-0193/LST21-0023

Last Update: 8/3/21
O:\3800-3899\3828\3828HYD EX JW.dwg

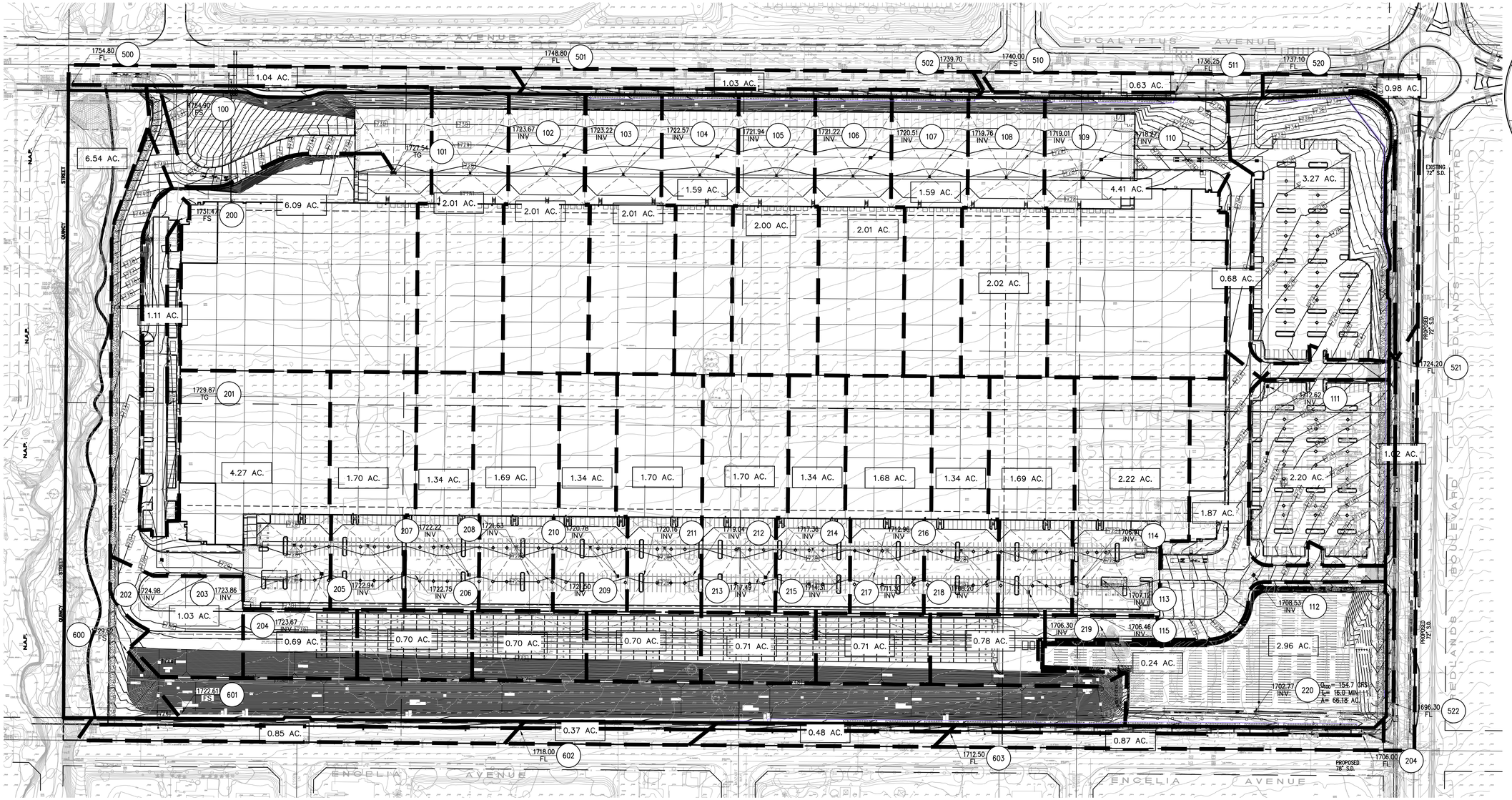
PREPARED FOR:

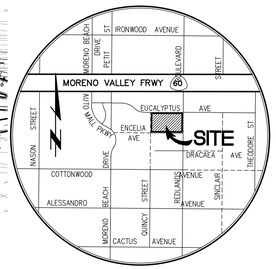
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, STE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FX:(714)521-4173

CITY OF MORENO VALLEY
EXISTING CONDITION HYDROLOGY MAP
MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)





VICINITY MAP

N.T.S.

LEGEND

- PROJECT BOUNDARY
- SUBAREA BOUNDARY
- SUBAREA FLOWLINE
- 9.1 AC. — SUBAREA AREA
- 100 — NODE NUMBER

0 50 100 200 300

SCALE: 1"=100'

PEN19-0193/LST21-0023 Last Update: 4/5/22 G:\3800-3899\3828\3828HYD-OPT2.dwg

PREPARED FOR:

HILLWOOD INVESTMENTS
901 VIA PIEMONTE, STE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY

PROPOSED CONDITION HYDROLOGY MAP OPTION 1

MORENO VALLEY TRADE CENTER

Attachment: Preliminary Hydrology Report (E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

translutions
the transportation solutions company...

memorandum

DATE: April 22, 2022

TO: David Ornelas, T&B Planning

FROM: Sandipan Bhattacharjee, P.E., T.E., AICP, ENV-SP

SUBJECT: Moreno Valley Trade Center Trip Generation Comparison (E-Commerce & Warehouse Scenarios)

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the trip generation included in the Moreno Valley Trade Center Traffic Impact Analyses (TIA) and the proposed trip generation that includes High-Cube Cold Storage warehouse facilities.

Background. In November 2020, Translutions submitted a TIA for the Moreno Valley Trade Center project in the City of Moreno Valley. The project included the construction of approximately 1,332,380 square feet of E-Commerce warehouse uses. Subsequently, the project site plan was changed to 1,263,270 square feet with change in project access, eliminating all traffic from Encilia Avenue. A revised analysis was conducted in April 2022, and the levels of service under the revised project were not worse than those in the previous analysis.

The project's EIR also evaluates options where 50,000 square feet of each alternative would include High-Cube Cold Storage facilities.

Trip Generation from Original TIA. As stated earlier, the TIA for the original project was submitted to the City in November 2020. The trip generation used for the analysis was based on surveyed rated from similar E-Commerce facilities in the Inland Empire. Tables A and B show the project trip generation from the approved TIA. As shown in Table A, the original project is forecast to generate 554 PCE trips in the a.m. peak hour, 1,118 PCE trips in the p.m. peak hour, and 7,903 PCE daily trips for the e-commerce scenario. As shown in Table B, the original project is forecast to generate 363 PCE trips in the a.m. peak hour, 404 PCE trips in the p.m. peak hour, and 3,665 PCE daily trips for the warehouse scenario.

Trip Generation from Revised TIA. As stated earlier, the revised TIA was revised in April 2022. Tables C and D show the project trip generation from the revised TIA. As shown in Table C, the revised project is forecast to generate 524 PCE trips in the a.m. peak hour, 1,061 PCE trips in the p.m. peak hour, and 7,494 PCE daily trips for the e-commerce scenario. As shown in Table E, the revised project is forecast to generate 342 PCE trips in the a.m. peak hour, 383 PCE trips in the p.m. peak hour, and 3,474 PCE daily trips for the warehouse scenario. Therefore, under both scenarios, the revised project generates fewer trips.

Trip Generation for Cold Storage. The air quality analysis evaluates a scenario where up to 50,000 square feet of each scenario is developed for cold storage. The trip generation for the cold storage portion of the warehouse is based on trip generation rates for Land Use 157 "High-Cube Cold Storage Warehouse" from Institute of Transportation Engineers' (ITE) Trip Generation (10th Edition). Table E shows the trip generation for the proposed High-Cube Cold Storage portion. Table F summarizes the proposed project trip generation for the remaining portion for the E-Commerce scenario. Table G summarizes the proposed project trip generation for the E-Commerce scenario with cold storage. Table H summarizes the proposed project trip generation for the remaining portion for the warehouse scenario. Table I summarizes the proposed project trip generation for the warehouse scenario with cold storage. As shown in Table H, the revised project is forecast to generate 518 PCE trips in the a.m. peak hour, 1,033 PCE trips in the p.m. peak hour, and 7,377 PCE daily trips for the e-commerce with cold storage scenario. As shown in Table I, the revised project is forecast to generate 343 PCE trips in the a.m. peak hour, 382 PCE trips in the p.m. peak hour, and 3,518 PCE daily trips for the e-commerce with cold storage scenario.

Trip Generation Comparison. Table J summarizes the trip generations for the various alternatives. As seen on Table J, the trip generation for the revised project under all scenarios are less than those for the previous project.

VMT Evaluation. The revised building footprint is approximately 69,000 square feet less than the previous building footprint, or approximately 5% less. This is a minor reduction, and the employee numbers are anticipated to remain the same as before or reduce slightly. Since VMT impacts are based on VMT per employee, if the number of employees remain the same or decrease slightly, the per employee home-based work VMT will remain the same or decrease slightly. Therefore, the VMT impacts are unlikely to change from the previous project.

Conclusion. Since the trip generation of the proposed project during the a.m. peak hour, p.m. peak hour, and daily are lower than those disclosed in the TIA submitted in November 2020, the impacts from the proposed project are anticipated to be less than those disclosed in the November 2020 TIA and addressed in the prior CEQA analyses.

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table A - Project Trip Generation (e-Commerce, November 2020)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,332.38	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			388	96	489	545	517	1062	6,607
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,332.38	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			373	79	452	533	497	1030	5,750
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			373	79	452	533	497	1030	5,750
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	3	0	1	2	177
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	5	0	2	3	266
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			4	4	8	2	3	5	153
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			8	8	16	4	6	10	306
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			10	11	27	10	15	25	527
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			30	33	81	30	45	75	1,581
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,332.38	TSF							
Passenger Cars			373	79	452	533	497	1,030	5,750
2-Axle Trucks			1	1	3	0	1	2	177
3-Axle Trucks			4	4	8	2	3	5	153
4+ Axle Trucks			10	11	27	10	15	25	527
All Trucks			15	16	38	12	19	32	857
Total Vehicles			403	95	490	545	516	1,062	6,607
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			373	79	452	533	497	1,030	5,750
Truck PCE									
2-Axle Trucks			2	2	5	0	2	3	266
3-Axle Trucks			8	8	16	4	6	10	306
4+ Axle Trucks			30	33	81	30	45	75	1,581
Total Truck PCE			40	43	102	34	53	88	2,153
Total PCE			413	122	554	567	550	1,118	7,903

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table B - Project Trip Generation (Warehouse, November 2020)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.477	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.602	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,332.38 TSF							
Passenger Cars		109	32	141	43	114	157	1,436
2-Axle Trucks		12	3	15	5	12	17	150
3-Axle Trucks		15	5	20	6	16	22	201
4+ Axle Trucks		41	12	53	17	42	59	534
All Trucks		68	20	88	28	70	98	885
Total Vehicles		245	52	229	71	184	255	2,321
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		109	32	141	43	114	157	1,436
Truck PCE								
2-Axle Trucks		18	5	23	8	18	26	225
3-Axle Trucks		30	10	40	12	32	44	402
4+ Axle Trucks		123	36	159	51	126	177	1,602
Total Truck PCE		171	51	222	71	176	247	2,229
Total PCE		280	83	363	114	290	404	3,665

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table C - Project Trip Generation (e-Commerce, April 2022 TIA)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,263.27	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			368	91	464	516	491	1007	6,265
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,263.27	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			354	75	429	505	472	977	5,452
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			354	75	429	505	472	977	5,452
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	2	0	1	1	168
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	3	0	2	2	252
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			3	4	7	2	3	5	145
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			6	8	14	4	6	10	290
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			9	11	26	9	15	24	500
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			27	33	78	27	45	72	1,500
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,263.27	TSF							
Passenger Cars			354	75	429	505	472	977	5,452
2-Axle Trucks			1	1	2	0	1	1	168
3-Axle Trucks			3	4	7	2	3	5	145
4+ Axle Trucks			9	11	26	9	15	24	500
All Trucks			13	16	35	11	19	30	813
Total Vehicles			380	91	464	516	491	1,007	6,265
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			354	75	429	505	472	977	5,452
Truck PCE									
2-Axle Trucks			2	2	3	0	2	2	252
3-Axle Trucks			6	8	14	4	6	10	290
4+ Axle Trucks			27	33	78	27	45	72	1,500
Total Truck PCE			35	43	95	31	53	84	2,042
Total PCE			389	118	524	536	525	1,061	7,494

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table D - Project Trip Generation (Warehouse, April 2022 TIA)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.477	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.602	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,263.27 TSF							
Passenger Cars		102	31	133	41	108	149	1,361
2-Axle Trucks		11	3	14	5	11	16	142
3-Axle Trucks		15	4	19	6	15	21	191
4+ Axle Trucks		39	11	50	16	40	56	506
All Trucks		65	18	83	27	66	93	839
Total Vehicles		232	49	216	68	174	242	2,200
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		102	31	133	41	108	149	1,361
Truck PCE								
2-Axle Trucks		16	5	21	7	17	24	213
3-Axle Trucks		30	8	38	12	30	42	382
4+ Axle Trucks		117	33	150	48	120	168	1,518
Total Truck PCE		163	46	209	67	167	234	2,113
Total PCE		265	77	342	108	275	383	3,474

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table E: Project Trip Generation (High-Cube Cold Storage Warehouse)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.085	0.025	0.110	0.034	0.086	0.120	2.120
PCE Inbound/Outbound Splits		77%	23%	100%	28%	72%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		55.82%	55.82%	55.82%	55.82%	55.82%	55.82%	55.82%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.047	0.014	0.061	0.019	0.048	0.067	1.183
2-Axle Trucks								
Recommended Mix (%)[2]		7.48%	7.48%	7.48%	7.48%	7.48%	7.48%	7.48%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.010	0.003	0.012	0.004	0.010	0.013	0.238
3-Axle Trucks								
Recommended Mix (%)[2]		10.03%	10.03%	10.03%	10.03%	10.03%	10.03%	10.03%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.017	0.005	0.022	0.007	0.017	0.024	0.425
4-Axle Trucks								
Recommended Mix (%)[2]		26.66%	26.66%	26.66%	26.66%	26.66%	26.66%	26.66%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.068	0.020	0.088	0.027	0.069	0.096	1.696
Warehouse Net PCE Rate		0.142	0.042	0.184	0.056	0.144	0.200	3.542
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	50.00 TSF							
Passenger Cars		3	1	4	2	2	4	60
2-Axle Trucks		1	0	1	1	0	1	8
3-Axle Trucks		1	0	1	1	0	1	11
4+ Axle Trucks		2	0	2	1	1	2	29
All Trucks		4	0	4	3	1	4	48
Total Vehicles		7	1	8	5	3	8	108
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		3	1	4	2	2	4	60
Truck PCE								
2-Axle Trucks		2	0	2	2	0	2	12
3-Axle Trucks		2	0	2	2	0	2	22
4+ Axle Trucks		6	0	6	3	3	6	87
Total Truck PCE		10	0	10	7	3	10	121
Total PCE		13	1	14	9	5	14	181

[1] Rates based on Land Use 157 "High-Cube Cold Storage Warehouse" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study for Cold Storage.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table F - Project Trip Generation (E-Commerce Warehouse Portion, Cold Storage Scenario)

Land Use		Units	Peak Hour						Daily
			AM Peak Hour			PM Peak Hour			
			In	Out	Total	In	Out	Total	
Total Vehicle Rates									
Total Vehicle Rates									
Trip Generation Rates[1]	1,213.27	TSF	0.2910	0.0717	0.3673	0.4087	0.3883	0.7970	4.9591
Trip Generation			353	87	446	496	471	967	6,017
Passenger Car Equivalent Rates Calculations									
Passenger Cars									
Trip Generation Rates[1]	1,213.27	TSF	0.2800	0.0592	0.3392	0.3998	0.3733	0.7731	4.3155
Trip Generation			340	72	412	485	453	938	5,236
PCE Factor[2]			1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCEs			340	72	412	485	453	938	5,236
2-Axle Trucks									
Trip Generation Rates[1]			0.0009	0.0009	0.0019	0.0002	0.0010	0.0011	0.1329
Trip Generation			1	1	2	0	1	1	161
PCE Factor[2]			1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCEs			2	2	3	0	2	2	242
3-Axle Trucks									
Trip Generation Rates[1]			0.0027	0.0030	0.0057	0.0013	0.0025	0.0038	0.1149
Trip Generation			3	4	7	2	3	5	139
PCE Factor[2]			2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCEs			6	8	14	4	6	10	278
4-Axle Trucks									
Trip Generation Rates[1]			0.0074	0.0085	0.0205	0.0074	0.0116	0.0190	0.3957
Trip Generation			9	10	25	9	14	23	480
PCE Factor[2]			3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCEs			27	30	75	27	42	69	1,440
Total Project Trip Generation (Trips, By Vehicle Type)									
Warehouse	1,213.27	TSF							
Passenger Cars			340	72	412	485	453	938	5,236
2-Axle Trucks			1	1	2	0	1	1	161
3-Axle Trucks			3	4	7	2	3	5	139
4+ Axle Trucks			9	10	25	9	14	23	480
All Trucks			13	15	34	11	18	29	780
Total Vehicles			353	87	446	496	471	967	6,016
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)									
Passenger Cars			340	72	412	485	453	938	5,236
Truck PCE									
2-Axle Trucks			2	2	3	0	2	2	242
3-Axle Trucks			6	8	14	4	6	10	278
4+ Axle Trucks			27	30	75	27	42	69	1,440
Total Truck PCE			35	40	92	31	50	81	1,960
Total PCE			375	112	504	516	503	1,019	7,196

[1] Trips based on Surveys and application to Proposed Project.

[2] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table G - Total Project Trip Generation Summary (e-Commerce + Cold Storage)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
TOTAL VEHICLES								
Passenger Cars		343	73	416	487	455	942	5,296
Trucks								
2-Axle Trucks		2	1	3	1	1	2	169
3-Axle Trucks		4	4	8	3	3	6	150
4+ Axle Trucks		11	10	27	10	15	25	509
Total Trucks		17	15	38	14	19	33	828
TOTAL PCE								
Passenger Cars		343	73	416	487	455	940	5,296
Truck PCE								
2-Axle Trucks		4	2	5	2	2	4	254
3-Axle Trucks		8	8	16	6	6	12	300
4+ Axle Trucks		33	30	81	30	45	75	1,527
Total Truck PCE		45	40	102	38	53	91	2,081
Total PCE		388	113	518	525	508	1,033	7,377

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

Table H: Project Trip Generation (Warehouse Portion, Cold Storage Scenario)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.081	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		0.207	0.062	0.268	0.081	0.219	0.300	2.747
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,213.27 TSF							
Passenger Cars		99	29	128	39	104	143	1,307
2-Axle Trucks		11	3	14	4	11	15	137
3-Axle Trucks		14	4	18	5	15	20	183
4+ Axle Trucks		37	11	48	15	39	54	486
All Trucks		62	18	80	24	65	89	806
Total Vehicles		161	47	208	63	169	232	2,113
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		99	29	128	39	104	143	1,307
Truck PCE								
2-Axle Trucks		16	5	21	6	17	23	206
3-Axle Trucks		28	8	36	10	30	40	366
4+ Axle Trucks		111	33	144	45	117	162	1,458
Total Truck PCE		155	46	201	61	164	225	2,030
Total PCE		254	75	329	100	268	368	3,337

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Table I: Total Project Trip Generation Summary (Warehouse + Cold Storage)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
TOTAL VEHICLES								
Passenger Cars		102	30	132	41	106	147	1,367
Trucks								
2-Axle Trucks		12	3	15	5	11	16	145
3-Axle Trucks		15	4	19	6	15	21	194
4+ Axle Trucks		39	11	50	16	40	56	515
Total Trucks		66	18	84	27	66	93	854
TOTAL PCE								
Passenger Cars		102	30	132	41	106	147	1,367
Truck PCE								
2-Axle Trucks		18	5	23	8	17	25	218
3-Axle Trucks		30	8	38	12	30	42	388
4+ Axle Trucks		117	33	150	48	120	168	1,545
Total Truck PCE		165	46	211	68	167	235	2,151
Total PCE		267	76	343	109	273	382	3,518

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

translutions
the transportation solutions company

Table H: Project Trip Generation (Warehouse Portion, Cold Storage Scenario)

Land Use	Units	Peak Hour						Daily
		AM Peak Hour			PM Peak Hour			
		In	Out	Total	In	Out	Total	
Total Vehicle Rates								
Trip Generation Rates[1]	TSF	0.131	0.039	0.170	0.051	0.139	0.190	1.740
PCE Inbound/Outbound Splits		77%	23%	100%	27%	73%	100%	50%/50%
Passenger Car Equivalent Rates Calculations								
Passenger Cars								
Recommended Mix (%)[2]		61.90%	61.90%	61.90%	61.90%	61.90%	61.90%	61.90%
PCE Factor[3]		1.0	1.0	1.0	1.0	1.0	1.0	1.0
PCE Rates		0.081	0.024	0.105	0.032	0.086	0.118	1.077
2-Axle Trucks								
Recommended Mix (%)[2]		6.45%	6.45%	6.45%	6.45%	6.45%	6.45%	6.45%
PCE Factor[3]		1.5	1.5	1.5	1.5	1.5	1.5	1.5
PCE Rates		0.013	0.004	0.016	0.005	0.013	0.018	0.168
3-Axle Trucks								
Recommended Mix (%)[2]		8.65%	8.65%	8.65%	8.65%	8.65%	8.65%	8.65%
PCE Factor[3]		2.0	2.0	2.0	2.0	2.0	2.0	2.0
PCE Rates		0.023	0.007	0.029	0.009	0.024	0.033	0.301
4-Axle Trucks								
Recommended Mix (%)[2]		22.99%	22.99%	22.99%	22.99%	22.99%	22.99%	22.99%
PCE Factor[3]		3.0	3.0	3.0	3.0	3.0	3.0	3.0
PCE Rates		0.090	0.027	0.117	0.035	0.096	0.131	1.200
Warehouse Net PCE Rate		**0.207**	**0.062**	**0.268**	**0.081**	**0.219**	**0.300**	**2.747**
Total Project Trip Generation (Trips, By Vehicle Type)								
Warehouse	1,213.27 TSF							
Passenger Cars		**99**	**29**	**128**	**39**	**104**	**143**	**1,307**
2-Axle Trucks		11	3	14	4	11	15	137
3-Axle Trucks		14	4	18	5	15	20	183
4+ Axle Trucks		37	11	48	15	39	54	486
All Trucks		**62**	**18**	**80**	**24**	**65**	**89**	**806**
Total Vehicles		**161**	**47**	**208**	**63**	**169**	**232**	**2,113**
Total Project Trip Generation (Passenger Car Eqivalent Trips, By Vehicle Type)								
Passenger Cars		**99**	**29**	**128**	**39**	**104**	**143**	**1,307**
Truck PCE								
2-Axle Trucks		16	5	21	6	17	23	206
3-Axle Trucks		28	8	36	10	30	40	366
4+ Axle Trucks		111	33	144	45	117	162	1,458
Total Truck PCE		**155**	**46**	**201**	**61**	**164**	**225**	**2,030**
Total PCE		**254**	**75**	**329**	**100**	**268**	**368**	**3,337**

[1] Rates based on Land Use 150 "Warehousing" from Institute of Transportation Engineers (ITE) Trip Generation (10th Ed.).

[2] Recommended Truck Mix Percentages per SCAQMD Truck Trip Generation Study.

[3] Recommended PCE Factor per SBCTA Guidelines

Attachment: Trip Generation Comparison Memorandum for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley

translutions
the transportation solutions company...

memorandum

DATE: April 9, 2022

TO: John Grace, Vice President - Development, Hillwood

FROM: Sandipan Bhattacharjee, Translutions, Inc.

SUBJECT: Moreno Valley Trade Center – Warehouse Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center Warehouse development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot warehouse building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the warehouse building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	109	32	141	43	114	157	1,436
Total PCE	280	83	363	114	290	404	3,665
Trip Generation (Proposed Project)							
Passenger Cars	102	31	133	41	108	149	1,361
Total PCE	265	77	342	108	275	383	3,474
Net Change in Total PCE	-15	-6	-21	-6	-15	-21	-191

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -63 a.m. peak hour trips, -70 p.m. peak hour trips, and -639 daily trips.

Table B - Project Trip Comparison on Encilia Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	48	15	63	19	51	70	639
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-48	-15	-63	-19	-51	-70	-639

REDUCTION IN TRUCK TRIPS ON REDLANDS BOULEVARD SOUTH OF EUCALYPTUS AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -5 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -334 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	5	0	5	21	0	21	334
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-5	0	-5	-21	0	-21	-334

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -21 a.m. peak hour PCE trips, -21 p.m. peak hour PCE trips, and -191 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno

translutions

Table **A**: Existing Intersection Levels of Service**(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	16.7	B	15.6	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.3	C	37.6	D	2.1	5.1	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.0	B	12.5	B	0.9	1.6	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	11.2	B	10.4	B	2.0	10.4	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.6	A	8.9	A	8.6	8.9	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.7	C	40.9	D	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.4	C	25.2	C	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	9.8	A	14.1	B	0.9	7.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				14.3	A	17.6	B	14.3	17.6	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				9.5	A	10.3	B	9.5	10.3	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	20.5	C	18.2	C	21.6	A	18.6	A	1.1	0.4	NO

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table **B**: Existing Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,275	F *	1.222	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	13,925	F *	1.114	0.131	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,121	A	0.525	-0.478	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	12,903	A	0.516	-0.487	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,364	F *	1.069	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,174	B	0.671	0.033	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,023	A	0.402	0.108	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,021	A	0.121	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	3,193	A	0.128	0.047	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,110	A	0.164	0.035	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	4,250	A	0.170	0.041	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

Table **C**: Opening Year (2024) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	34.9	D	45.5	D	4.5	8.4	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.6	B	1.0	1.9	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	11.6	B	10.7	B	2.1	10.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.7	A	8.9	A	-	-	-
7 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	37.4	D	64.5	E *	39.8	D	65.2	E *	-	-	-
8 . Redlands Boulevard/SR-60 Eastbour	D	Caltrans	Signal	40.9	D	32.1	C	42.6	D	38.1	D	1.7	6.0	-
9 . Redlands Boulevard/Eucalyptus Aver	D	Moreno Valley	Roundabout	16.0	C	8.4	A	18.7	C	10.1	B	2.7	1.7	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				17.3	B	27.8	D	17.3	27.8	NO
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				9.8	B	11.4	B	9.8	11.4	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	TWSC	30.5	D	26.9	D	35.5	A	30.2	D	5.0	3.3	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **D**: Opening Year (2024) Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,027	F *	1.522	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	17,959	F *	1.437	0.131	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,630	B	0.625	-0.578	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,412	B	0.616	-0.587	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,799	F *	1.504	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,181	E *	0.911	0.033	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,721	B	0.618	0.108	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,347	A	0.174	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,508	A	0.180	0.030	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,520	A	0.221	0.016	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,660	A	0.226	0.022	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions

Table **E**: General Plan Build-Out (2040) Intersection Levels of Service (**Revised Project Analysis**)

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.4	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.1	C	53.5	D	1.7	4.5	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	13.9	B	21.4	C	1.2	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	14.3	B	14.7	B	2.8	14.7	NO
6 . Driveway 2/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				9.0	A	10.1	B	9.0	10.1	-
7 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.5	B	7.7	A	-	-	-
8 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	-
9 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	12.6	B	19.7	C	4.0	3.6	NO
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	*Future Intersection*				27.3	D	86.2	F *	27.3	86.2	YES
11 . Redlands Boulevard/Driveway 4	D	Moreno Valley	TWSC	*Future Intersection*				11.3	B	13.2	B	11.3	13.2	NO
12 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	27.8	C	-0.1	0.2	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **F**: General Plan Build-Out (2040) Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,562	C	0.708	0.023	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,703	C	0.739	0.044	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,861	B	0.690	0.016	NO
4 . Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
5 . Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,643	B	0.684	0.010	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,622	A	0.455	0.011	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,751	D	0.813	0.022	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	13,936	A	0.557	0.054	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,655	A	0.386	0.056	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,598	A	0.384	0.067	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,664	A	0.467	0.067	NO
12 . Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,804	A	0.472	0.073	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.9	D	44.7	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **H**: Existing with Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,275	F *	4D	37,500	15,275	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	13,925	F *	4D	37,500	13,925	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,364	F *	4D	37,500	13,364	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company...

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	Signal	35.7	D	42.2	D
7 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	39.8	D	65.2	E *	Signal	43.6	D	56.8	E *

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **J**: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,027	F *	4D	37,500	19,027	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	17,959	F *	4D	37,500	17,959	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,799	F *	4D	37,500	18,799	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company...

Table **K**: General Plan Build-out (2040) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Redlands Boulevard/Driveway 3	D	Moreno Valley	TWSC	27.3	D	86.2	F *	Signal	2.8	A	3.5	A

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions

Table **A**: Existing Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project AM Peak Hour Delay	Without Project AM Peak Hour LOS	Without Project PM Peak Hour Delay	Without Project PM Peak Hour LOS	With Project AM Peak Hour Delay	With Project AM Peak Hour LOS	With Project PM Peak Hour Delay	With Project PM Peak Hour LOS	Change in Delay AM Peak Hour	Change in Delay PM Peak Hour	Exceed City's Operational Requirement?
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	16.5	B	15.2	B	13.5	B	19.1	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.2	C	32.5	C	32.4	C	37.8	D	2.2	5.3	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.1	B	12.6	B	1.0	1.7	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.2	A		A	10.4	B	10.4	B	1.2	10.4	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.9	A	9.0	A	0.5	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.1	A	9.2	A	0.7	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.6	A	8.9	A	8.6	8.9	NO
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	40.8	D	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	20.4	C	25.0	C	25.6	C	25.2	C	-	-	-
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Signal	8.9	A	6.5	A	10.1	B	14.3	B	1.2	7.8	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				9.8	A	10.3	B	9.8	10.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				9.7	A	10.4	B	9.7	10.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	20.5	C	18.2	C	2.5	A	0.5	A	-18.0	-17.7	NO

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table B: Existing Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,322	F *	1.226	-	-
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,015	F *	1.121	0.138	YES
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,515	A	0.541	-0.462	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,501	A	0.540	-0.463	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	13,174	A	0.527	-0.476	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	13,401	F *	1.072	-	-
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	25,243	B	0.673	0.035	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	5,097	A	0.408	0.114	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	3,099	A	0.124	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	2,930	A	0.117	0.037	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,847	A	0.154	0.025	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	3,958	A	0.158	0.029	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	361	A	0.014	-0.094	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	569	A	0.023	-0.086	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	1,114	A	0.045	-0.193	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Table **C**: Opening Year (2024) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound	D	Caltrans	Signal	16.9	B	16.1	B	12.6	B	13.9	B	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	30.4	C	37.1	D	35.1	D	46.3	D	4.7	9.2	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	10.5	B	11.7	B	11.5	B	13.8	B	1.0	2.1	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	9.5	A		A	10.7	B	10.6	B	1.2	10.6	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.7	A	8.8	A	0.3	0.5	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.5	A	8.3	A	8.9	A	9.0	A	0.4	0.7	NO
8 . Driveway 4-Shubert Street/Encilia Av	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.2	A	9.2	A	0.8	0.9	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				8.7	A	8.9	A	-	-	-
10 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	37.4	D	64.5	E *	40.1	D	65.1	E *	-	-	-
11 . Redlands Boulevard/SR-60 Eastbour	D	Caltrans	Signal	40.9	D	32.1	C	43.7	D	38.5	D	2.8	6.4	NO
12 . Redlands Boulevard/Eucalyptus Aver	D	Moreno Valley	Roundabout	16.0	C	8.4	A	19.7	C	10.4	B	3.7	2.0	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.5	B	10.1	11.5	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.6	B	10.1	11.6	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	30.5	D	26.9	D	2.4	A	1.2	A	-28.1	-25.7	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table D: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,074	F *	1.526	-	-
2 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	18,049	F *	1.444	0.138	YES
3 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,024	B	0.641	-0.563	NO
4 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,010	B	0.640	-0.563	NO
5 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	15,683	B	0.627	-0.576	NO
6 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	18,836	F *	1.507	-	-
7 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	34,250	E *	0.913	0.035	NO
8 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	7,795	B	0.624	0.114	NO
9 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	4,425	A	0.177	0.059	NO
10 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	4,245	A	0.170	0.019	NO
11 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,257	A	0.210	0.006	NO
12 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	5,368	A	0.215	0.010	NO
13 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	384	A	0.015	-0.104	NO
14 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	592	A	0.024	-0.096	NO
15 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	1,163	A	0.047	-0.215	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions

Table **E**: General Plan Build-Out (2040) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Moreno Beach Dr/SR-60 Westbound Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.4	B	33.4	C	-	-	-
3 . Moreno Beach Dr/Eucalyptus Avenue	D	Moreno Valley	Signal	32.4	C	49.0	D	34.2	C	53.9	D	1.8	4.9	NO
4 . Auto Mall Dr/Eucalyptus Avenue	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.0	B	21.5	C	1.3	2.2	NO
5 . Driveway 1/Eucalyptus Avenue	D	Moreno Valley	TWSC	11.5	B		A	13.1	B	14.8	C	1.6	14.8	NO
6 . Driveway 2-Essen Ln/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	10.8	B	0.8	1.6	NO
7 . Driveway 3/Encilia Avenue	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.1	A	11.0	B	0.4	1.8	NO
8 . Driveway 4-Shubert Street/Encilia Avenue	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.2	A	10.3	B	0.6	1.1	NO
9 . Driveway 5/Eucalyptus Avenue	D	Moreno Valley	TWSC	*Future Intersection*				9.0	A	10.1	B	9.0	10.1	-
10 . Redlands Boulevard/SR-60 Westbound Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	7.6	A	-	-	-
11 . Redlands Boulevard/SR-60 Eastbound Ramps	D	Caltrans	Signal	14.7	B	20.7	C	16.3	B	16.9	B	-	-	NO
12 . Redlands Boulevard/Eucalyptus Avenue	D	Moreno Valley	Roundabout	8.6	A	16.1	C	9.7	B	20.3	C	1.1	4.2	NO
13 . Redlands Boulevard/Driveway 6	D	Moreno Valley	TWSC	*Future Intersection*				11.6	B	13.3	B	11.6	13.3	NO
14 . Redlands Boulevard/Driveway 7	D	Moreno Valley	TWSC	*Future Intersection*				11.6	B	13.4	B	11.6	13.4	NO
15 . Redlands Boulevard/Encilia Avenue	D	Moreno Valley	Signal	14.1	B	28.0	C	15.5	B	27.3	C	1.4	-0.7	NO
												-	-	-

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table F: General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
					Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	26,609	C	0.710	0.025	NO
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	27,793	C	0.741	0.046	NO
3 . Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,255	B	0.700	0.026	NO
4 . Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,241	B	0.700	0.026	NO
5 . Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	25,914	B	0.691	0.017	NO
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	25,659	A	0.456	0.012	NO
7 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	45,820	D	0.814	0.023	NO
8 . Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	14,010	A	0.560	0.057	NO
9 . Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	9,733	A	0.389	0.059	NO
10 . Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	9,335	A	0.373	0.057	NO
11 . Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,401	A	0.456	0.057	NO
12 . Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	11,512	A	0.460	0.061	NO
13 . Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,140	A	0.166	0.006	NO
14 . Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,348	A	0.174	0.014	NO
15 . Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,951	A	0.198	0.026	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company...

Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
2 . Moreno Beach Dr/SR-60 Eastbound Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	31.8	C	42.3	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table H: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,322	F *	4D	37,500	15,322	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,015	F *	4D	37,500	14,015	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	13,401	F *	4D	37,500	13,401	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company...

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project						With Project With Improvements					
			Control	AM Peak Hour		PM Peak Hour			Control	AM Peak Hour		PM Peak Hour		
				Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS	
2 . Moreno Beach Dr/SR-60 Eastbound	D	Caltrans	Signal	>100	F	* >100	F	*	Signal	32.9	C	43.2	D	
10 . Redlands Boulevard/SR-60 Westbou	D	Caltrans	Signal	40.1	D	65.1	E	*	Signal	35.1	D	56.7	E	*

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table J: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,074	F *	4D	37,500	19,074	A
2 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	18,049	F *	4D	37,500	18,049	A
6 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,836	F *	4D	37,500	18,836	A

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company...

memorandum

DATE: April 9, 2022

TO: John Grace, Vice President - Development, Hillwood

FROM: Sandipan Bhattacharjee, Translutions, Inc.

SUBJECT: Moreno Valley Trade Center – E-Commerce Scenario - Traffic Impact Analysis Evaluation

Translutions, Inc. (Translutions) is pleased to provide this memorandum discussing the changes to the traffic impact analysis associated with the updated site plan for the Moreno Valley Trade Center E-Commerce development project. The project is located on the southwest corner of Redlands Boulevard and Eucalyptus Avenue in the City of Moreno Valley.

BACKGROUND

Translutions submitted a TIA in November 2020 to the City of Moreno Valley that included the analysis of a proposed 1,332,380 square foot E-Commerce warehouse development. Since then, the project description has been revised to include a 1,263,270 square foot E-Commerce building and several modifications to the site plan. This memorandum compares the findings from the traffic impact analysis in November 2020 to what is being proposed now. Figure 1 illustrates the revised site plan.

REVISED PROJECT DESCRIPTION

As stated above, the project description has been modified to now include a reduction in square footage for the E-Commerce building from 1,332,380 square feet to 1,263,270 square feet. Access to the site has been modified for both autos and trucks. For autos, access to the site from Encilia Avenue has been removed. Autos will access the site via the two driveways on Eucalyptus Avenue and the two driveways on Redlands Boulevard. The northern driveway on Redlands Boulevard now includes full-access inbound/outbound movements for autos and will include a traffic signal as a project design feature. The analysis includes the signal as a project constructed improvement. Trucks will access the site via the two driveways on Eucalyptus Avenue and are prohibited on Redlands Boulevard south of Eucalyptus Avenue.

PROJECT TRIP GENERATION COMPARISON

The project trip generation disclosed in the previous TIA from 2020 was compared to the trip generation for the proposed project. Table A summarizes the trip generation comparison. As shown in Table A, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation.

Table A - Project Trip Generation Comparison

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Trip Generation from Previous Traffic Impact Analysis (November 2020)							
Passenger Cars	373	79	452	533	497	1,030	5,750
Total PCE	413	122	554	567	550	1,118	7,903
Trip Generation (Proposed Project)							
Passenger Cars	354	75	429	505	472	977	5,452
Total PCE	389	118	524	536	525	1,061	7,494
Net Change in Total PCE	-24	-4	-30	-31	-25	-57	-409

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno

REDUCTION IN AUTO TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos from the November 2020 TIA and adjusted to reflect the changes in access for autos included in the project description such as the removal of the project driveways on Encilia Avenue. With the removal of the project driveways on Encilia Avenue, a reduction in project trips is anticipated on Encilia Avenue. Table B compares the project trips on Encilia Avenue from the previous TIA to the proposed project. As shown in Table B, the proposed project would result in a net decrease in project trips on Encilia Avenue of -200 a.m. peak hour trips, -459 p.m. peak hour trips, and -2,559 daily PCE trips.

Table B - Project Trip Comparison on Encilia Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Project Trips on Encilia Avenue from Previous Traffic Impact Analysis (November 2020)							
Total Trips	165	35	200	235	224	459	2,559
Project Trips on Encilia Avenue (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-165	-35	-200	-235	-224	-459	-2559

REDUCTION IN TRUCK TRIPS ON ENCILIA AVENUE

The trip distribution for the proposed project trips were developed using the same trip distribution patterns for trucks from the November 2020 TIA and adjusted to reflect the changes in access for trucks included in the project description such as the prohibition of trucks on Redlands Boulevard south of Eucalyptus Avenue. With trucks prohibited on Redlands Boulevard south of Eucalyptus Avenue, a reduction in trucks trips is shown in Table C. Table C compares the trucks trips on Redlands Boulevard south of Eucalyptus Avenue from the previous TIA to the proposed project. As shown in Table C, the proposed project would result in a net decrease in truck PCE trips on Redlands Boulevard south of Eucalyptus Avenue of -12 a.m. peak hour PCE trips, -10 p.m. peak hour PCE trips, and -323 daily PCE trips.

Table C - Truck Trip Comparison on Redlands Boulevard south of Eucalyptus Avenue

	Peak Hour						Daily
	AM Peak Hour			PM Peak Hour			
Units	In	Out	Total	In	Out	Total	
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. from Previous Traffic Impact Analysis (November 2020)							
Total Trips	12	0	12	10	0	10	323
Truck Trips on Redlands Blvd. south of Eucalyptus Ave. (Proposed Project)							
Total Trips	0	0	0	0	0	0	0
Net Change in Trips on Encilia Avenue	-12	0	-12	-10	0	-10	-323

LEVEL OF SERVICE COMPARISON

As stated previously, the trip distribution for the proposed project trips were developed using the same trip distribution patterns for autos and trucks from the November 2020 TIA. With the trip generation reduction shown in Table A of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, it was anticipated that the levels of service at the study area intersections would generally improve or remain the same under existing, opening year, and general plan build out conditions at the study area intersections and roadways segments. A full analysis has been conducted and available for

review, and as anticipated, the operations under the revised project are better than the previous project. Summary LOS tables are attached.

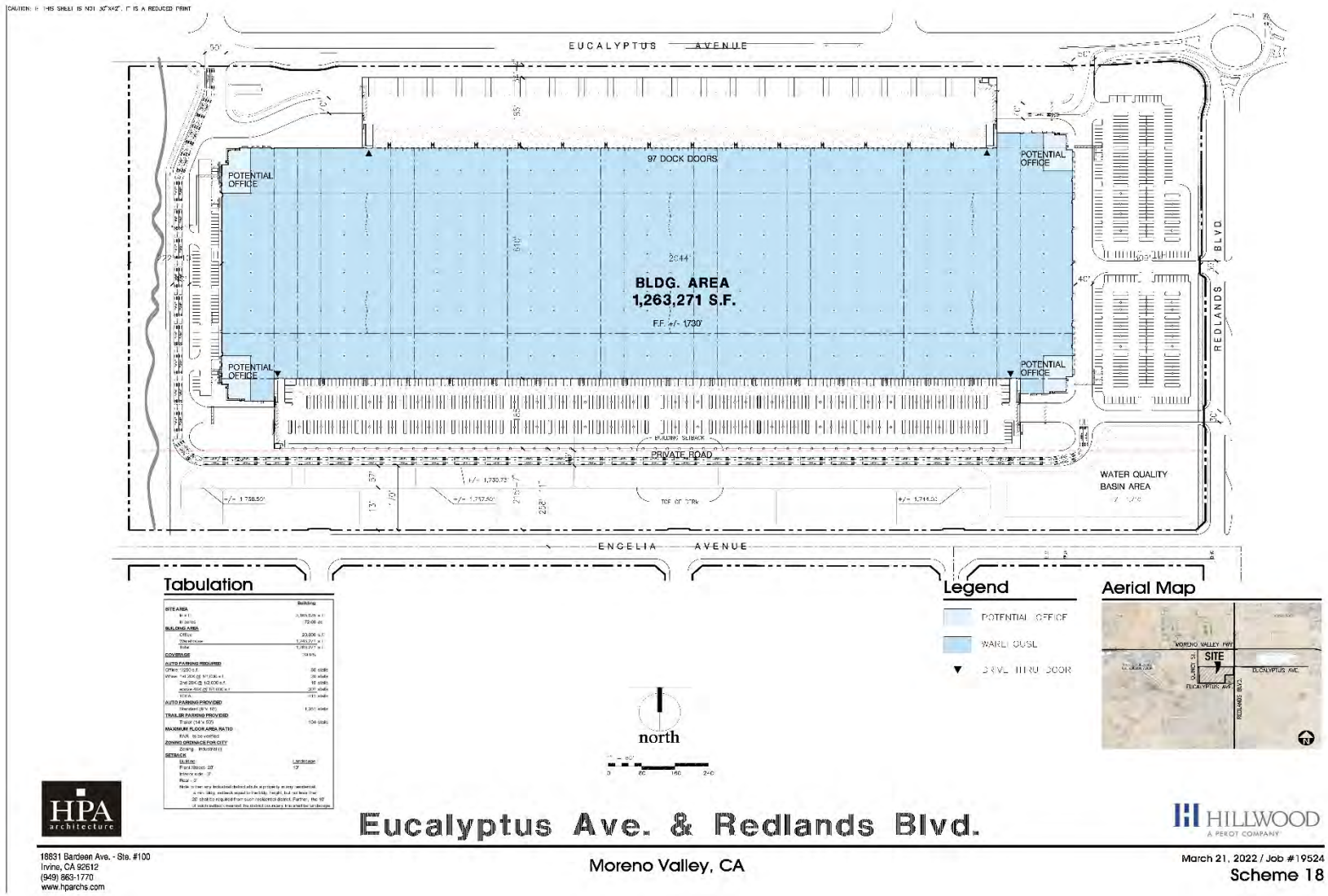
CONCLUSION

Based on the changes to the project description, the proposed project would result in a net decrease in project trips of -30 a.m. peak hour PCE trips, -57 p.m. peak hour PCE trips, and -409 daily PCE trips, when compared to the previous study's trip generation. A full analysis was conducted, and the results are summarized in this memorandum. The project will not result in any new operational deficiencies that were not disclosed in the previous TIA from November 2020.

Attachments:

Figure 1 – Site Plan
LOS Tables

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno



Source: HPA Architecture (March 21, 2022)

FIGURE 1

Moreno Valley Trade Center

Site Plan

translutions
the transportation solutions company...

D:\Projects\Hillwood - Moreno Valley Trade Center\Mar 2022 Site Access Analysis\Z30 Site Plan (4/6/2022)

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table **A**: Existing Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.2	C	0.3	0.8	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.6	D	3.1	7.1	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.5	B	16.0	C	1.4	5.1	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.3	D	37.5	D	0.0	6.9	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.9	C	0.4	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.6	C	28.7	C	0.2	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.7	F *	18.5	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.1	F *	79.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.1	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.8	B	12.5	B	1.6	12.5	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.8	A	9.2	A	8.8	9.2	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.7	B	0.3	-0.1	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	46.9	D	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.5	C	26.8	C	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.6	B	3.3	12.1	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				20.7	B	>100	F *	20.7	393.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				9.7	B	11.4	B	9.7	11.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	24.6	C	25.4	D	4.1	7.2	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	7.1	A	5.7	A	0.1	0.2	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	40.3	E *	67.5	F *	13.6	40.8	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.7	B	0.3	0.4	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.1	B	0.4	0.5	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **B**: Existing Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,157	D *	0.879	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,644	F *	1.096	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,888	F *	1.111	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,522	F *	1.482	0.035	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,528	F *	1.242	0.035	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	15,970	F *	1.278	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	14,988	F *	1.199	0.216	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,881	A	0.595	-0.408	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	14,007	A	0.560	-0.443	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,057	E *	0.965	0.118	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,699	D *	0.856	0.105	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,829	C	0.706	0.026	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,015	A	0.241	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,005	F *	1.120	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,332	C	0.702	0.064	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,244	F *	1.539	0.031	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,834	A	0.281	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,498	A	0.293	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,738	A	0.351	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,624	A	0.544	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,744	A	0.475	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,648	A	0.386	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,274	A	0.381	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,507	A	0.521	0.227	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,669	A	0.187	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,731	A	0.189	0.109	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,648	A	0.226	0.097	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,886	A	0.235	0.106	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,886	A	0.231	0.022	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	217	A	0.009	-0.100	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	475	A	0.019	-0.218	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,017	D	0.881	0.022	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,043	D	0.803	0.039	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,421	A	0.514	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table **C**: Opening Year (2024) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.5	E *	0.6	2.7	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.2	D	55.7	E *	1.6	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.8	D	0.0	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	36.0	D	28.0	C	0.4	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	36.8	D	57.7	E *	6.4	20.6	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.0	B	18.2	C	1.5	6.5	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	71.9	E *	98.4	F *	1.6	13.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	28.9	C	0.3	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	30.7	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	11.1	B	13.9	B	1.6	13.9	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.9	A	9.3	A	8.9	9.3	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.1	D	71.3	E *	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	36.8	D	48.7	D	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	22.0	C	14.7	C	6.0	6.3	NO
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				27.1	B	>100	F *	27.1	956.4	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				10.0	B	13.0	B	10.0	13.0	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	22.7	C	27.8	D	-7.8	0.9	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	7.9	A	7.4	A	0.0	0.5	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	28.6	86.6	YES
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.7	C	35.1	E *	0.9	3.9	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **D**: Opening Year (2024) Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,231	F *	1.008	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,288	F *	1.260	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,652	F *	1.283	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,678	F *	1.734	0.035	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,061	F *	1.445	0.035	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,722	F *	1.578	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,022	F *	1.522	0.216	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,390	B	0.696	-0.508	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	16,516	B	0.661	-0.543	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,363	F *	1.149	0.118	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,102	F *	1.048	0.105	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,524	D *	0.842	0.026	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,298	A	0.292	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,440	F *	1.555	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,339	E *	0.942	0.064	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,079	F *	2.086	0.031	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,404	A	0.398	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,691	A	0.474	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,213	A	0.537	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,848	C	0.761	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,497	B	0.648	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,706	A	0.468	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,959	A	0.479	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,205	C	0.736	0.227	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	5,995	A	0.240	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	6,046	A	0.242	0.091	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,058	A	0.282	0.078	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	7,296	A	0.292	0.087	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,316	A	0.505	0.022	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	240	A	0.010	-0.110	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	524	A	0.021	-0.241	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,436	F *	1.475	0.022	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	17,988	F *	1.439	0.039	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,546	B	0.684	0.070	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table **E**: General Plan Build-Out (2040) Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	98.8	F *	>100	F *	3.4	0.1	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.7	D	64.5	E *	0.3	1.0	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	19.4	B	13.3	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.2	B	35.6	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.7	C	59.9	E *	2.3	10.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.5	B	28.2	D	1.8	8.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.3	D	0.0	0.4	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.8	C	0.1	0.3	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.6	B	20.1	C	2.1	20.1	NO
20 . Dwy 2/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				9.2	A	10.5	B	9.2	10.5	NO
21 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.0	C	24.7	C	0.1	-7.5	NO
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
23 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.5	B	14.7	B	-	-	-
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.1	B	40.2	E *	1.5	24.1	YES
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	*Future Intersection*				51.5	F *	>100	F *	51.5	2596.5	YES
26 . Redlands Blvd/Dwy 4	D	Moreno Valley	TWSC	*Future Intersection*				11.5	B	15.4	C	11.5	15.4	NO
27 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.7	B	27.6	C	14.6	B	25.5	C	-0.1	-2.1	NO
28 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	7.7	A	14.3	B	3.4	5.9	NO
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.8	C	0.1	0.8	NO
30 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.3	D	0.6	2.1	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **F**: General Plan Build-Out (2040) Roadway Segment Levels of Service **(Revised Project Analysis)**

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,482	F *	-	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,573	F *	-	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,289	F *	-	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,319	B	0.648	0.012	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,103	B	0.616	0.012	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,257	C	-	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,766	C	0.767	0.072	NO
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 3	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,621	C	0.737	0.063	NO
9 .	Redlands Blvd from Driveway 3 to Driveway 4	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
10 .	Redlands Blvd from Driveway 4 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	26,747	C	0.713	0.039	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,147	A	0.484	0.039	NO
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	16,975	A	0.453	0.035	NO
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,034	A	0.294	0.009	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,133	A	0.525	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,263	A	-	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	46,909	D	0.833	0.043	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,951	A	0.585	0.007	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,868	A	0.459	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,316	B	0.610	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,128	D	0.819	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,004	F *	1.101	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,682	E *	0.900	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,437	F *	1.057	0.011	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,055	C	0.775	0.007	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,420	B	0.617	0.113	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,303	A	0.452	0.122	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	11,136	A	0.445	0.129	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 2	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,202	A	0.528	0.129	NO
29 .	Eucalyptus Ave from Driveway 2 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,440	A	0.538	0.138	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,700	C	0.788	0.011	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	3,996	A	0.160	0.000	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	4,312	A	0.172	0.000	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,484	B	0.648	0.005	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,474	C	0.733	0.013	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,015	C	0.747	0.023	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **G**: Existing With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.0	C	35.6	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.7	F *	18.5	C	Signal	12.3	B	10.4	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.1	F *	79.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.1	F *	>100	F *	Signal	19.0	B	20.7	C
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	20.7	B	>100	F *	Signal	7.7	A	15.7	B
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	40.3	E *	67.5	F *	Signal	15.4	B	17.3	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **H**: Existing with Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,157	D *	4MA	37,200	14,157	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,644	F *	4MA	37,200	17,644	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,888	F *	4MA	37,200	17,888	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	15,970	F *	4D	37,500	15,970	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	14,988	F *	4D	37,500	14,988	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,057	E *	4D	37,500	12,057	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,699	D *	4D	37,500	10,699	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,005	F *	4D	37,500	14,005	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,332	C	4D	37,500	26,332	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table I: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.4	D	41.3	D
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	36.8	D	57.7	E *	Signal	34.2	C	39.8	D
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	71.9	E *	98.4	F *	Signal	49.1	D	68.0	E *
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	30.7	D *	Signal	20.0	B	10.8	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	16.7	B	21.0	C
22 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.1	D	71.3	E *	Signal	36.3	D	59.1	E *
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	27.1	B	>100	F *	TWSC	10.5	B	17.3	B
29 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	21.6	C	64.7	E *
31 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	43.4	D	27.3	C

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **J**: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,231	F *	4MA	37,200	16,231	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,288	F *	4MA	37,200	20,288	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,652	F *	4MA	37,200	20,652	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,722	F *	4D	37,500	19,722	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,022	F *	4D	37,500	19,022	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,363	F *	4D	37,500	14,363	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,102	F *	4D	37,500	13,102	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,440	F *	4D	37,500	19,440	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,339	E *	6D	56,300	35,339	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **K**: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service **(Revised Project Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.7	C	59.9	E *	Signal	33.3	D	45.0	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	Signal	22.2	C	13.0	B
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	27.1	C	26.7	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	21.0	C	32.4	C
24 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.1	B	40.2	E *	Roundabout	10.0	B	27.4	D
25 . Redlands Blvd/Dwy 3	D	Moreno Valley	TWSC	51.5	F *	>100	F *	Signal	5.6	A	14.3	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **L**: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service **(Revised Project Analysis)**

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,482	F *	4MA	37,200	21,482	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,573	F *	4MA	37,200	24,573	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,289	F *	4MA	37,200	26,289	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company

Table **A-1**: Existing Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	34.4	C	32.8	C	34.6	C	33.4	C	0.2	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	42.7	D	43.9	D	46.1	D	44.7	D	3.4	0.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	40.8	D	41.9	D	40.9	D	42.1	D	0.1	0.2	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	43.4	D	27.3	C	43.6	D	28.1	C	0.2	0.8	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	39.1	D	29.4	C	39.4	D	30.3	C	0.3	0.9	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	24.2	C	22.6	C	24.2	C	22.6	C	0.0	0.0	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	23.5	C	21.3	C	23.7	C	21.5	C	0.2	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	28.5	C	23.5	C	29.3	C	23.8	C	0.8	0.3	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.5	B	15.2	B	17.1	B	15.4	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	89.1	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.2	C	32.5	C	33.3	C	39.9	D	3.1	7.4	NO
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.1	B	10.9	B	11.6	B	16.3	C	1.5	5.4	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	39.3	D	30.6	C	39.4	D	37.7	D	0.1	7.1	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	26.2	C	29.7	C	26.6	C	29.8	C	0.4	0.1	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	29.4	C	28.1	C	29.5	C	28.7	C	0.1	0.6	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	59.6	F *	16.2	C	64.6	F *	18.7	C	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	74.3	F *	60.7	F *	80.7	F *	80.0	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	86.2	F *	>100	F *	95.6	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.2	A		A	10.6	B	13.0	B	1.4	13.0	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	9.5	A	11.0	B	1.1	2.7	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.3	B	13.4	B	1.9	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.8	A	9.1	A	8.8	9.1	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	19.8	B	13.8	B	20.1	C	13.8	B	0.3	0.0	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	27.5	C	39.9	D	27.6	C	47.3	D	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	20.4	C	25.0	C	28.8	C	26.9	C	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Signal	8.9	A	6.5	A	12.2	B	18.3	B	3.3	11.8	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				10.1	B	11.9	B	10.1	11.9	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				10.0	B	11.8	B	10.0	11.8	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	TWSC	20.5	C	18.2	C	6.5	A	5.8	A	-14.0	-12.4	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.0	A	5.5	A	2.0	A	2.6	A	-5.0	-2.9	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	26.7	D *	26.7	D *	41.3	E *	70.9	F *	14.6	44.2	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	11.1	B	11.3	B	11.4	B	11.8	B	0.3	0.5	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	10.0	B	9.6	A	10.4	B	10.2	B	0.4	0.6	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

D:\Projects\Hillwood - Moreno Valley Trade Center\Analysis Alt 1 and 2\LOS Revised\Exist LOS

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table B-1: Existing Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	13,775	D *	0.856	2MA	16,100	14,177	D *	0.881	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,208	F *	1.069	2MA	16,100	17,668	F *	1.097	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,452	F *	1.084	2MA	16,100	17,912	F *	1.113	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	18,086	F *	1.447	2U	12,500	18,546	F *	1.484	0.037	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	15,092	F *	1.207	2U	12,500	15,552	F *	1.244	0.037	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,403	F *	1.152	2U	12,500	16,055	F *	1.284	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	12,290	E *	0.983	2U	12,500	15,136	F *	1.211	0.228	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,447	B	0.618	-0.385	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,389	B	0.616	-0.387	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	12,535	F *	1.003	4U	25,000	15,094	B	0.604	-0.399	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	10,585	D *	0.847	2U	12,500	12,081	E *	0.966	0.120	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	9,391	C	0.751	2U	12,500	10,771	D *	0.862	0.110	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	8,501	B	0.680	2U	12,500	8,847	C	0.708	0.028	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	5,797	A	0.232	4U	25,000	6,027	A	0.241	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	12,724	F *	1.018	2U	12,500	14,075	F *	1.126	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	23,934	B	0.638	4D	37,500	26,464	C	0.706	0.067	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	18,862	F *	1.509	2U	12,500	19,264	F *	1.541	0.032	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	15,452	A	0.274	6D	56,300	15,854	A	0.282	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	15,898	A	0.282	6D	56,300	16,530	A	0.294	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	19,248	A	0.342	6D	56,300	19,766	A	0.351	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	30,134	A	0.535	6D	56,300	30,652	A	0.544	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	26,472	A	0.470	6D	56,300	26,760	A	0.475	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	9,376	A	0.375	4U	25,000	9,664	A	0.387	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	14,002	A	0.373	4D	37,500	14,290	A	0.381	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	3,673	A	0.294	2U	12,500	6,663	A	0.533	0.239	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	1,617	A	0.065	4U	25,000	4,837	A	0.193	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	1,507	A	0.080	4U	25,000	4,496	A	0.180	0.099	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,413	A	0.217	0.087	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	2,424	A	0.129	4U	25,000	5,523	A	0.221	0.092	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	2,612	A	0.209	2U	12,500	2,900	A	0.232	0.023	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	793	A	0.032	-0.077	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	217	A	0.108	4U	25,000	1,627	A	0.065	-0.043	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	475	A	0.237	4U	25,000	3,034	A	0.121	-0.116	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	10,745	D	0.860	2U	12,500	11,033	D	0.883	0.023	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	9,553	C	0.764	2U	12,500	10,071	D	0.806	0.041	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	5,549	A	0.444	2U	12,500	6,469	A	0.518	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

Table **C-1**: Opening Year (2024) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	39.7	D *	37.3	D *	40.0	D *	38.2	D *	0.3	0.9	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	92.7	F *	60.8	E *	93.3	F *	63.6	E *	0.6	2.8	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	48.6	D	55.0	E *	50.3	D	55.7	E *	1.7	0.7	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	67.2	E *	37.7	D	68.1	E *	38.8	D	0.9	1.1	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	42.2	D	36.9	D	42.2	D	37.9	D	0.0	1.0	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	30.8	C	29.8	C	31.0	C	32.6	C	0.2	2.8	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	25.5	C	25.8	C	26.6	C	26.0	C	1.1	0.2	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	35.6	D	27.8	C	35.9	D	28.0	C	0.3	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	16.9	B	16.1	B	17.3	B	16.2	B	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	30.4	C	37.1	D	37.0	D	59.0	E *	6.6	21.9	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	10.5	B	11.7	B	12.1	B	18.6	C	1.6	6.9	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	70.3	E *	85.2	F *	72.0	E *	>100	F *	1.7	14.2	YES
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	30.4	C	33.2	C	30.6	C	33.6	C	0.2	0.4	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	30.0	C	28.3	C	30.3	C	29.0	C	0.3	0.7	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	24.6	C	>100	F *	31.2	D *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	9.5	A		A	10.9	B	14.4	B	1.4	14.4	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	8.8	A	7.3	A	0.4	-1.0	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.5	A	8.3	A	9.4	A	10.7	B	0.9	2.4	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.4	A	8.3	A	10.4	B	13.4	B	2.0	5.1	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				8.9	A	9.2	A	8.9	9.2	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	21.0	C	19.5	B	21.0	C	26.3	C	0.0	6.8	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	37.4	D	64.5	E *	41.6	D	71.7	E *	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	40.9	D	32.1	C	37.5	D	49.9	D	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	16.0	C	8.4	A	23.0	C	15.6	C	7.0	7.2	NO
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				10.5	B	13.6	B	10.5	13.6	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				10.3	B	13.5	B	10.3	13.5	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	30.5	D	26.9	D	3.2	A	4.8	A	-27.3	-22.1	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	7.9	A	6.9	A	2.6	A	3.3	A	-5.3	-3.6	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	95.1	F *	>100	F *	>100	F *	>100	F *	30.3	92.4	YES
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	AWSC	21.8	C	31.2	D *	22.8	C	35.2	E *	1.0	4.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	>100	F *	>100	F *	677.7	10626.4	YES

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table D-1: Opening Year (2024) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			Classification	Roadway Capacity	With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C			Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	15,849	E *	0.984	2MA	16,100	16,251	F *	1.009	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	19,852	F *	1.233	2MA	16,100	20,312	F *	1.262	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,216	F *	1.256	2MA	16,100	20,676	F *	1.284	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	2U	12,500	21,242	F *	1.699	2U	12,500	21,702	F *	1.736	0.037	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	2U	12,500	17,625	F *	1.410	2U	12,500	18,085	F *	1.447	0.037	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,155	F *	1.452	2U	12,500	19,807	F *	1.585	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	16,324	F *	1.306	2U	12,500	19,170	F *	1.534	0.228	YES
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,956	C	0.718	-0.485	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,898	C	0.716	-0.488	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	2U	12,500	15,044	F *	1.203	4U	25,000	17,603	C	0.704	-0.499	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,891	F *	1.031	2U	12,500	14,387	F *	1.151	0.120	YES
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	11,794	E *	0.944	2U	12,500	13,174	F *	1.054	0.110	YES
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	2U	12,500	10,196	D *	0.816	2U	12,500	10,542	D *	0.843	0.028	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	7,080	A	0.283	4U	25,000	7,310	A	0.292	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	18,159	F *	1.453	2U	12,500	19,510	F *	1.561	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	32,941	D	0.878	4D	37,500	35,471	E *	0.946	0.067	YES
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	2U	12,500	25,697	F *	2.056	2U	12,500	26,099	F *	2.088	0.032	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	22,022	A	0.391	6D	56,300	22,424	A	0.398	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	26,091	A	0.463	6D	56,300	26,723	A	0.475	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	29,723	A	0.528	6D	56,300	30,241	A	0.537	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	42,358	C	0.752	6D	56,300	42,876	C	0.762	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	36,225	B	0.643	6D	56,300	36,513	B	0.649	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	11,434	A	0.457	4U	25,000	11,722	A	0.469	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	17,687	A	0.472	4D	37,500	17,975	A	0.479	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	2U	12,500	6,371	A	0.510	2U	12,500	9,361	C	0.749	0.239	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	2,943	A	0.118	4U	25,000	6,163	A	0.247	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	3U	18,750	2,822	A	0.150	4U	25,000	5,811	A	0.232	0.082	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,823	A	0.273	0.068	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	3U	18,750	3,834	A	0.204	4U	25,000	6,933	A	0.277	0.073	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	2U	12,500	6,042	A	0.483	2U	12,500	6,330	A	0.506	0.023	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	816	A	0.033	-0.087	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	2UR	2,000	240	A	0.120	4U	25,000	1,650	A	0.066	-0.054	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	2UR	2,000	524	A	0.262	4U	25,000	3,083	A	0.123	-0.138	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	2U	12,500	18,164	F *	1.453	2U	12,500	18,452	F *	1.476	0.023	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	2U	12,500	17,498	F *	1.400	2U	12,500	18,016	F *	1.441	0.041	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	2U	12,500	7,674	B	0.614	2U	12,500	8,594	B	0.688	0.074	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

Table **E-1**: General Plan Build-Out (2040) Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	Control	Without Project				With Project				Change in Delay		Exceed City's Operational Requirement?
				AM Peak Hour		PM Peak Hour		AM Peak Hour		PM Peak Hour		AM Peak Hour	PM Peak Hour	
				Delay	LOS	Delay	LOS	Delay	LOS	Delay	LOS			
1 . Kitching St/Iris Ave	C	Moreno Valley	Signal	95.4	F *	>100	F *	99.0	F *	>100	F *	3.6	0.6	NO
2 . Lasselle St/Alessandro Blvd	D	Moreno Valley	Signal	39.6	D	39.5	D	39.7	D	39.6	D	0.1	0.1	NO
3 . Lasselle St/Iris Ave	D	Moreno Valley	Signal	49.4	D	63.5	E *	49.8	D	64.6	E *	0.4	1.1	NO
4 . Nason St/Eucalyptus Ave	D	Moreno Valley	Signal	58.4	E *	57.5	E *	58.4	E *	58.8	E *	0.0	1.3	NO
5 . Nason St/Alessandro Blvd	D	Moreno Valley	Signal	44.8	D	40.6	D	44.8	D	40.7	D	0.0	0.1	NO
6 . Nason St/Iris Ave	C	Moreno Valley	Signal	35.4	D *	63.5	E *	35.6	D *	63.9	E *	0.2	0.4	NO
7 . Fir Ave/Eucalyptus Ave	D	Moreno Valley	Signal	32.6	C	34.1	C	32.8	C	34.4	C	0.2	0.3	NO
8 . Oliver St/Iris Ave	D	Moreno Valley	Signal	34.0	C	32.2	C	34.2	C	32.4	C	0.2	0.2	NO
9 . Moreno Beach Dr/SR-60 WB Ramps	D	Caltrans	Signal	2.8	A	0.2	A	2.8	A	0.1	A	-	-	-
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	15.1	B	27.6	C	16.3	B	36.4	D	-	-	-
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	32.4	C	49.0	D	34.8	C	60.8	E *	2.4	11.8	YES
12 . Auto Mall Dr/Eucalyptus Ave	D	Moreno Valley	TWSC	12.7	B	19.3	C	14.7	B	28.9	D	2.0	9.6	NO
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	36.8	D	37.9	D	36.8	D	38.4	D	0.0	0.5	NO
14 . Moreno Beach Blvd/Cactus Ave	C	Moreno Valley	Signal	29.6	C	28.5	C	29.7	C	28.7	C	0.1	0.2	NO
15 . Moreno Beach Dr/John F Kennedy Dr	D	Moreno Valley	Signal	35.7	D	30.0	C	35.8	D	30.4	C	0.1	0.4	NO
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	>100	F *	>100	F *	-	-	-
19 . Dwy 1/Eucalyptus Ave	D	Moreno Valley	TWSC	11.5	B		A	13.4	B	22.2	C	1.9	22.2	NO
20 . Dwy 2-Essen Ln/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	11.6	B	0.8	2.4	NO
21 . Dwy 3/Encilia Ave	D	Moreno Valley	TWSC	8.7	A	9.2	A	9.5	A	12.0	B	0.8	2.8	NO
22 . Dwy 4-Shubert St/Encilia Ave	D	Moreno Valley	TWSC	8.6	A	9.2	A	9.6	A	13.1	B	1.0	3.9	NO
23 . Dwy 5/Eucalyptus Ave	D	Moreno Valley	TWSC	*Future Intersection*				9.2	A	10.4	B	9.2	10.4	NO
24 . Redlands Blvd/Ironwood Ave	D	Moreno Valley	Signal	25.9	C	32.2	C	26.1	C	24.7	C	0.2	-7.5	NO
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	9.6	A	7.5	A	11.6	B	8.0	A	-	-	-
26 . Redlands Blvd/SR-60 EB Ramps	D	Caltrans	Signal	14.7	B	20.7	C	15.6	B	14.7	B	-	-	-
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	8.6	A	16.1	C	10.2	B	42.8	E *	1.6	26.7	YES
28 . Redlands Blvd/Dwy 6	D	Moreno Valley	TWSC	*Future Intersection*				12.1	B	16.0	C	12.1	16.0	NO
29 . Redlands Blvd/Dwy 7	D	Moreno Valley	TWSC	*Future Intersection*				11.9	B	15.9	C	11.9	15.9	NO
30 . Redlands Blvd/Encilia Ave	D	Moreno Valley	Signal	14.1	B	28.0	C	17.8	B	40.3	D	3.7	12.3	NO
31 . Redlands Blvd/Cottonwood Ave	C	Moreno Valley	Signal	4.3	A	8.4	A	4.3	A	8.5	A	0.0	0.1	NO
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	Signal	28.9	C	28.0	C	29.0	C	28.9	C	0.1	0.9	NO
33 . Redlands Blvd-John F Kennedy Dr/Cactus Ave	C	Moreno Valley	Signal	28.7	C	24.9	C	28.7	C	24.9	C	0.0	0.0	NO
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	Signal	26.0	C	49.2	D	26.6	C	51.4	D	0.6	2.2	NO

Notes:

* Exceeds LOS Standard

TWSC = Two-Way Stop Control; For TWSC intersections, reported delay is for worst-case approach/movement.

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table F-1 General Plan Build-Out (2040) Roadway Segment Levels of Service (Previous Analysis)

	Roadway Segment	Jurisdiction	LOS Standard	Classification	Roadway Capacity	Without Project			With Project			Change in V/C	Exceed City's Operational Requirement?
						Daily Volume	LOS	V/C	Daily Volume	LOS	V/C		
1 .	San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,100	F *	1.311	21,502	F *	-	-	-
2 .	San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,137	F *	1.499	24,597	F *	-	-	-
3 .	Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	25,853	F *	1.606	26,313	F *	-	-	-
4 .	Redlands Blvd north of Ironwood Ave	City of Moreno Valley	C	4D	37,500	23,883	B	0.637	24,343	B	0.649	0.012	NO
5 .	Redlands Blvd from Ironwood Ave to SR-60 WB Ramps	City of Moreno Valley	D	4D	37,500	22,667	B	0.604	23,127	B	0.617	0.012	NO
6 .	Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	4D	37,500	25,690	B	0.685	27,342	C	-	-	-
7 .	Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,068	B	0.695	28,914	C	0.771	0.076	NO
8 .	Redlands Blvd from Eucalyptus Ave to Driveway 6	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,187	C	0.752	0.078	NO
9 .	Redlands Blvd from Driveway 6 to Driveway 7	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	28,129	C	0.750	0.076	NO
10 .	Redlands Blvd from Driveway 7 to Encilia Ave	City of Moreno Valley	D	4D	37,500	25,275	B	0.674	27,834	C	0.742	0.068	NO
11 .	Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	4D	37,500	16,675	A	0.445	18,171	A	0.485	0.040	NO
12 .	Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	4D	37,500	15,667	A	0.418	17,047	A	0.455	0.037	NO
13 .	Redlands Blvd from Alessandro Blvd to Cactus Ave	City of Moreno Valley	C	4D	37,500	10,706	A	0.285	11,052	A	0.295	0.009	NO
14 .	JFK Dr from Cactus Ave to Moreno Beach Dr	City of Moreno Valley	C	4U	25,000	12,915	A	0.517	13,145	A	0.526	0.009	NO
15 .	Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	6D	56,300	24,982	A	0.444	26,333	A	-	-	-
16 .	Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	6D	56,300	44,511	C	0.791	47,041	D	0.836	0.045	NO
17 .	Moreno Beach Dr from Alessandro Blvd to Cactus Ave	City of Moreno Valley	D	6D	56,300	32,569	A	0.578	32,971	A	0.586	0.007	NO
18 .	Moreno Beach Dr from Cactus Ave to JFK Dr	City of Moreno Valley	C	6D	56,300	25,486	A	0.453	25,888	A	0.460	0.007	NO
19 .	Moreno Beach Dr from JFK Dr to Oliver St	City of Moreno Valley	D	6D	56,300	33,716	A	0.599	34,348	B	0.610	0.011	NO
20 .	Iris Ave From Nason St to Oliver St	City of Moreno Valley	D	6D	56,300	45,638	D	0.811	46,156	D	0.820	0.009	NO
21 .	Iris Ave From Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	61,514	F *	1.093	62,032	F *	1.102	0.009	NO
22 .	Iris Ave From Kitching St to Lasselle St	City of Moreno Valley	D	6D	56,300	50,410	D	0.895	50,698	E *	0.900	0.005	NO
23 .	Eucalyptus Ave from Nason St to Fir Ave	City of Moreno Valley	D	4U	25,000	26,165	F *	1.047	26,453	F *	1.058	0.012	NO
24 .	Eucalyptus Ave from Fir Ave to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	28,783	C	0.768	29,071	C	0.775	0.008	NO
25 .	Eucalyptus Ave from Moreno Beach Dr to Auto Mall Dr	City of Moreno Valley	D	4U	25,000	12,586	A	0.503	15,576	B	0.623	0.120	NO
26 .	Eucalyptus Ave from Auto Mall Dr to Driveway 1	City of Moreno Valley	D	4U	25,000	8,251	A	0.330	11,471	A	0.459	0.129	NO
27 .	Eucalyptus Ave from Driveway 1 to Aldi Pl	City of Moreno Valley	D	4U	25,000	7,912	A	0.316	10,901	A	0.436	0.120	NO
28 .	Eucalyptus Ave Aldi Pl to Driveway 5	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	12,967	A	0.519	0.120	NO
29 .	Eucalyptus Ave from Driveway 5 to Redlands Blvd	City of Moreno Valley	D	4U	25,000	9,978	A	0.399	13,077	A	0.523	0.124	NO
30 .	Eucalyptus Ave from Redlands Blvd to World Logistics Center Driveway	City of Moreno Valley	D	4U	25,000	19,426	C	0.777	19,714	C	0.789	0.012	NO
31 .	Encilia Ave from Essen Ln to Mozart Way	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	4,572	A	0.183	0.023	NO
32 .	Encilia Ave from Mozart Way to Shubert St	City of Moreno Valley	D	4U	25,000	3,996	A	0.160	5,406	A	0.216	0.056	NO
33 .	Encilia Ave Shubert St to Redlands Blvd	City of Moreno Valley	D	4U	25,000	4,312	A	0.172	6,871	A	0.275	0.102	NO
34 .	Alessandro Blvd from Lasselle St to Nason St	City of Moreno Valley	D	6D	56,300	36,212	B	0.643	36,500	B	0.648	0.005	NO
35 .	Alessandro Blvd from Nason St to Moreno Beach Dr	City of Moreno Valley	D	4D	37,500	26,984	C	0.720	27,502	C	0.733	0.014	NO
36 .	Alessandro Blvd from Moreno Beach Dr to Redlands Blvd	City of Moreno Valley	D	4D	37,500	27,143	C	0.724	28,063	C	0.748	0.025	NO

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **G-1**: Existing With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	32.4	C	37.3	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	64.6	F *	18.7	C	Signal	0.9	A	0.6	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	80.7	F *	80.0	F *	Signal	17.1	B	12.0	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	95.6	F *	>100	F *	Signal	12.7	B	16.7	B
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	41.3	E *	70.9	F *	Signal	15.6	C	17.6	B

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table H-1: Existing with Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	14,177	D *	4MA	37,200	14,177	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	17,668	F *	4MA	37,200	17,668	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	17,912	F *	4MA	37,200	17,912	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	16,055	F *	4D	37,500	16,055	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	15,136	F *	4D	37,500	15,136	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	12,081	E *	4D	37,500	12,081	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	10,771	D *	4D	37,500	10,771	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	14,075	F *	4D	37,500	14,075	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	26,464	C	4D	37,500	26,464	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

translutions
the transportation solutions company

Table **I-1**: Opening Year (2024) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
				AM Peak Hour		PM Peak Hour			AM Peak Hour		PM Peak Hour	
			Control	Delay	LOS	Delay	LOS	Control	Delay	LOS	Delay	LOS
10 . Moreno Beach Dr/SR-60 EB Ramps	D	Caltrans	Signal	>100	F *	>100	F *	Signal	37.7	D	42.4	D
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	37.0	D	59.0	E *	Signal	34.2	C	39.7	D
13 . Moreno Beach Dr/Alessandro Blvd	D	Moreno Valley	Signal	72.0	E *	>100	F *	Signal	49.1	D	69.5	E *
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	31.2	D *	Signal	1.2	A	0.7	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	26.7	C	14.4	B
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	9.8	A	17.2	B
25 . Redlands Blvd/SR-60 WB Ramps	D	Caltrans	Signal	41.6	D	71.7	E *	Signal	36.8	D	59.9	E *
32 . Redlands Blvd/Alessandro Blvd	C	Moreno Valley	AWSC	>100	F *	>100	F *	Signal	22.1	C	64.8	E *
34 . WLC Parkway/Eucalyptus Ave	D	Moreno Valley	TWSC	>100	F *	>100	F *	Signal	12.0	B	29.5	C

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table J-1: Opening Year (2024) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	16,251	F *	4MA	37,200	16,251	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	20,312	F *	4MA	37,200	20,312	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	20,676	F *	4MA	37,200	20,676	C
6 . Redlands Blvd from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,807	F *	4D	37,500	19,807	A
7 . Redlands Blvd from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	2U	12,500	19,170	F *	4D	37,500	19,170	A
11 . Redlands Blvd from Encilia Ave to Cottonwood Ave	City of Moreno Valley	C	2U	12,500	14,387	F *	4D	37,500	14,387	A
12 . Redlands Blvd from Cottonwood Ave to Alessandro Blvd	City of Moreno Valley	C	2U	12,500	13,174	F *	4D	37,500	13,174	A
15 . Moreno Beach Dr from SR-60 WB Ramps to SR-60 EB Ramps	Caltrans	D	2U	12,500	19,510	F *	4D	37,500	19,510	A
16 . Moreno Beach Dr from SR-60 EB Ramps to Eucalyptus Ave	City of Moreno Valley	D	4D	37,500	35,471	E *	6D	56,300	35,471	B

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table **K-1**: General Plan Build-Out (2040) With Project With Improvements Intersection Levels of Service **(Previous Analysis)**

Intersection	LOS Standard	Jurisdiction	With Project					With Project With Improvements				
			Control	AM Peak Hour		PM Peak Hour		Control	AM Peak Hour		PM Peak Hour	
				Delay	LOS	Delay	LOS		Delay	LOS	Delay	LOS
11 . Moreno Beach Dr/Eucalyptus Ave	D	Moreno Valley	Signal	34.8	C	60.8	E *	Signal	33.4	D	45.1	D
16 . Alessandro Rd/San Timoteo Canyon Rd	C	Redlands	AWSC	>100	F *	>100	F *	Signal	1.8	A	1.3	A
17 . Live Oak Canyon Rd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	27.2	C	27.0	C
18 . Redlands Blvd/San Timoteo Canyon Rd	C	Riverside County	AWSC	>100	F *	>100	F *	Signal	16.7	B	20.3	C
27 . Redlands Blvd/Eucalyptus Ave	D	Moreno Valley	Roundabout	10.2	B	42.8	E *	Roundabout	10.1	A	28.3	D

Notes:

LOS = Level of Service

Attachment: Traffic Memorandums (Warehouse and E-Commerce) for Moreno Valley Trade Center -

translutions
the transportation solutions company...

Table L-1: General Plan Build-Out (2040) With Project With Improvements Roadway Segment Levels of Service (Previous Analysis)

Roadway Segment	Jurisdiction	LOS Standard	With Project				With Project With Improvements			
			Classification	Roadway Capacity	Daily Volume	LOS	Classification	Roadway Capacity	Daily Volume	LOS
1 . San Timoteo Canyon Rd from Alessandro Rd to Live Oak Canyon Rd	City of Redlands/Riverside County	C	2MA	16,100	21,502	F *	4MA	37,200	21,502	C
2 . San Timoteo Canyon Rd from Live Oak Canyon Rd to Redlands Blvd	Riverside County	C	2MA	16,100	24,597	F *	4MA	37,200	24,597	C
3 . Redlands Blvd south of San Timoteo Canyon Rd	Riverside County	C	2MA	16,100	26,313	F *	4MA	37,200	26,313	C

Notes:

LOS = Level of Service, 2MA=2-Lane Mountain Arterial, 2U=2-Lane Undivided, 4U=4-Lane Undivided, 6D=6-Lane Divided, 4D=4-Lane Divided, 2UR=2-Lane Undivided Residential

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

April 25, 2022
Mr. John Grace
Hillwood
901 Via Piemonte Suite 175
Ontario, CA 91764

MORENO VALLEY TRADE CENTER (WAREHOUSE SCENARIO) AIR QUALITY, GREENHOUSE GAS, AND HEALTH RISK ASSESSMENT EVALUATION

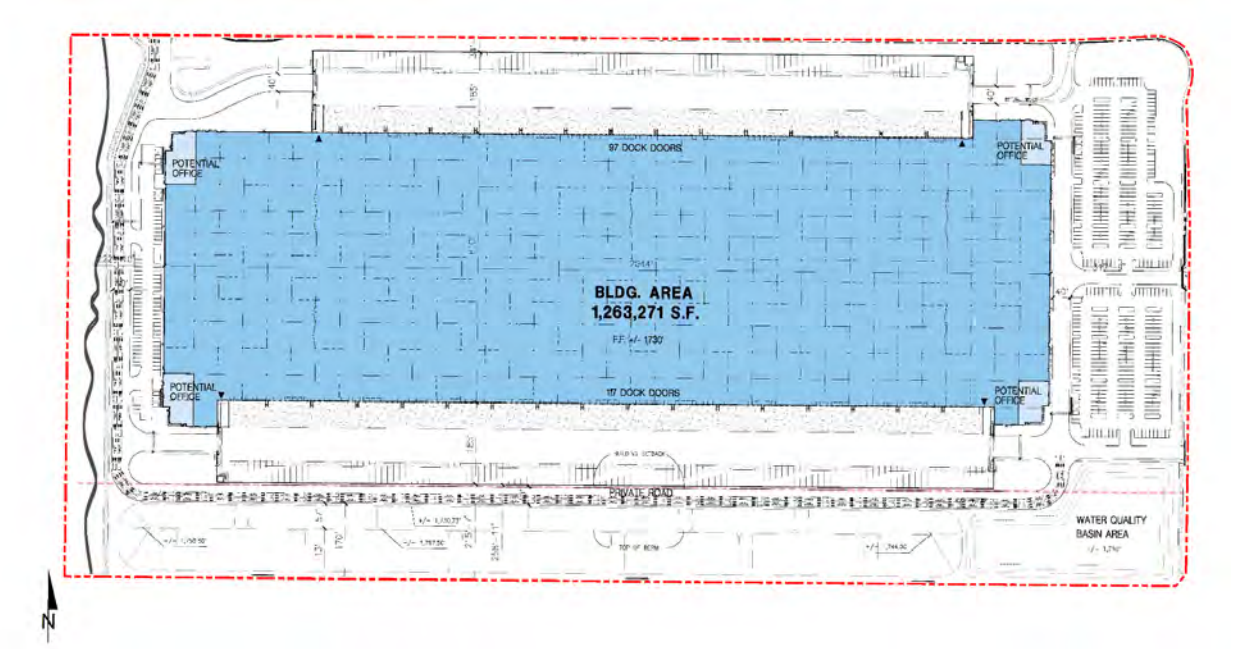
Mr. John Grace,

Urban Crossroads, Inc. is pleased to provide the following Air Quality (**AQ**), Greenhouse Gas (**GHG**), and Health Risk Assessment (**HRA**) Evaluation for the Moreno Valley Trade Center (Warehouse Scenario) development which is located in the City of Moreno Valley. The purpose of this work effort is to assess the potential changes in air quality, greenhouse gas, and health risks associated with the updated site plan for the Project.

BACKGROUND

On October 9, 2020, Urban Crossroads, Inc. prepared an AQ, GHG, and HRA Evaluation for the proposed Moreno Valley Trade Center Warehouse development (1). At the time the study was prepared, the proposed Project included the construction of approximately 50,000 sf of High-Cube Cold Storage facilities and 1,282,380 sf of E-Commerce facilities. Since then, the Project now proposes approximately 50,000 sf of High-Cube Cold Storage facilities and 1,213,271 sf of warehouse facilities (as illustrated on Exhibit 1). Therefore, for purposes of analysis in this memorandum, the Project now includes a reduction of 69,109 sf of building space. This memorandum includes the comparison of the emissions totals in the prior evaluation to what is now being proposed.

EXHIBIT 1: PRELIMINARY SITE PLAN



Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

AIR QUALITY AND GREENHOUSE GAS EMISSIONS

A comparison of the operational-source emissions disclosed in the previous technical study compared to emissions anticipated from the Proposed Project are summarized on Tables 1 and 2.

TABLE 1: PREVIOUSLY ANALYZED LAND USE AIR QUALITY EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Previous Technical Study	39.80	194.89	94.88	1.04	53.25	16.67
Proposed Project	37.80	184.22	90.11	0.99	50.36	15.77
Net Emissions	-2.00	-10.67	-4.77	-0.05	-2.89	-0.90
Winter						
Previous Technical Study	39.52	202.58	83.68	1.03	53.22	16.67
Proposed Project	37.53	191.47	79.49	0.98	50.34	15.77
Net Emissions	-1.99	-11.11	-4.19	-0.06	-2.88	-0.90

TABLE 2: GHG EMISSIONS SUMMARY

Emissions Source	Emissions (MT/yr)
	Total CO2e
Previous Technical Study	17,552.30
Proposed Project	16,500.94
Net Emissions	-1,051.36

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

ENERGY DEMAND COMPARISON

Tables 3 and 4 summarize the net transportation and facility energy demands associated with the Proposed Project.

TABLE 3: NET TRANSPORTATION ENERGY DEMAND

	Annual VMT	Annual Fuel Consumption
Previous Technical Study	16,244,612	1,395,481
Proposed Project	15,382,736	1,321,442
Net Emissions	-861,876	-74,039

TABLE 4: NET FACILITY ENERGY DEMAND

Natural Gas	kBTU/year
Previous Technical Study	4,373,300
Proposed Project	4,274,480
Net Change	-98,820
Electricity Demand	kWH/year
Previous Technical Study	4,471,700
Proposed Project	4,340,390
Net Change	-131,310

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

HEALTH RISK COMPARISON

Table 5 compares the maximum lifetime cancer risk for the Proposed Project with risks generated by the Previous Technical Study. As indicated at Table 5, the Proposed Project would result in a net decrease of 0.11 risks per million for the 30-year exposure time period.

TABLE 5: NET HEALTH RISKS

	30 Year Exposure Risk
Previous Technical Study	7.25
Proposed Project	7.14
Net Change	-0.11
	25 Year Exposure Risk
Previous Technical Study	0.57
Proposed Project	0.55
Net Change	-0.02

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the Proposed Project results in a net reduction in air quality, greenhouse gas, and health risk impacts.

Respectfully submitted,

URBAN CROSSROADS, INC.

Haseeb Qureshi
Principal

REFERENCES

Urban Crossroads, Inc. (2020). *Moreno Valley Trade Center E-Commerce Air Quality Impact Analysis.*

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

ATTACHMENT A

CALEEMOD OUTPUTS

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**5.8418**	**1.8323**	**6.8735**	**0.0239**	**2.2987**	**0.0664**	**2.3651**	**0.6101**	**0.0624**	**0.6725**	**333.7254**	**4,903.9313**	**5,237.6567**	**23.9982**	**0.2511**	**5,912.4439**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**5.8418**	**1.8323**	**6.8735**	**0.0239**	**2.2987**	**0.0664**	**2.3651**	**0.6101**	**0.0624**	**0.6725**	**333.7254**	**4,903.9313**	**5,237.6567**	**23.9982**	**0.2511**	**5,912.4439**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555
Unmitigated	0.4126	0.4657	5.9629	0.0198	2.2987	0.0104	2.3091	0.6101	9.5900e-003	0.6197	0.0000	1,826.8587	1,826.8587	0.0399	0.0000	1,827.8555

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Unmitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

7.0 Water Detail

7.1 Mitigation Measures Water

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**33.1267**	**10.6221**	**55.2455**	**0.1797**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**18,876.3660**	**18,876.3660**	**0.8446**	**0.0253**	**18,905.0082**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**33.1267**	**10.6221**	**55.2455**	**0.1797**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**18,876.3660**	**18,876.3660**	**0.8446**	**0.0253**	**18,905.0082**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533
Unmitigated	3.3678	3.1328	50.1487	0.1569	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		15,963.9490	15,963.9490	0.3202		15,971.9533

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Moreno Valley Trade Center - Warehouse (Operations - Passenger Cars)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006

tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05

tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41

tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27

tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004

tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08

tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08

tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07

tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04

tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003

tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004

tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72

tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11

tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47

tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35

tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003

tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04

tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98

tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003

tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005

tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49

tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06

tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003

tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05

tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003

tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003

tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	ST_TR	1.68	0.09
tblVehicleTrips	SU_TR	1.68	1.20
tblVehicleTrips	SU_TR	1.68	0.04
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	1.08

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**32.9567**	**10.8062**	**47.8600**	**0.1675**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**17,638.0206**	**17,638.0206**	**0.8472**	**0.0253**	**17,666.7277**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**32.9567**	**10.8062**	**47.8600**	**0.1675**	**17.2816**	**0.3842**	**17.6658**	**4.5812**	**0.3606**	**4.9418**		**17,638.0206**	**17,638.0206**	**0.8472**	**0.0253**	**17,666.7277**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728
Unmitigated	3.1977	3.3169	42.7633	0.1447	17.2816	0.0771	17.3586	4.5812	0.0710	4.6521		14,725.6035	14,725.6035	0.3228		14,733.6728

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	1,310.33	109.19	48.53	5,791,539	5,791,539
Total	1,370.33	169.19	108.53	6,154,083	6,154,083

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.0597**	**26.2703**	**5.6480**	**0.1138**	**4.0574**	**0.3835**	**4.4410**	**1.1444**	**0.3661**	**1.5105**	**333.7254**	**13,661.3101**	**13,995.0356**	**24.1287**	**0.2511**	**14,673.0853**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,611.0445	1,611.0445	0.0615	0.0160	1,617.3475
Mobile	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.0597**	**26.2703**	**5.6480**	**0.1138**	**4.0574**	**0.3835**	**4.4410**	**1.1444**	**0.3661**	**1.5105**	**333.7254**	**13,661.3101**	**13,995.0356**	**24.1287**	**0.2511**	**14,673.0853**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968
Unmitigated	0.6305	24.9037	4.7373	0.1096	4.0574	0.3276	4.3850	1.1444	0.3134	1.4577	0.0000	10,584.2375	10,584.2375	0.1704	0.0000	10,588.4968

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,382.9422	1,382.9422	0.0571	0.0118	1,387.8897
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	89180	28.4147	1.1700e-003	2.4000e-004	28.5163
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,382.9422**	**0.0571**	**0.0118**	**1,387.8897**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Unmitigated	5.2948	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6104					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6805					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.9400e-003	3.9000e-004	0.0424	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0824	0.0824	2.2000e-004	0.0000	0.0878
Total	**5.2948**	**3.9000e-004**	**0.0424**	**0.0000**		**1.5000e-004**	**1.5000e-004**		**1.5000e-004**	**1.5000e-004**	**0.0000**	**0.0824**	**0.0824**	**2.2000e-004**	**0.0000**	**0.0878**

7.0 Water Detail

7.1 Mitigation Measures Water

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39

tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.4276**	**181.0857**	**39.9572**	**0.8301**	**30.2833**	**2.7195**	**33.0027**	**8.5255**	**2.5973**	**11.1228**		**88,850.4698**	**88,850.4698**	**1.9100**	**0.0253**	**88,905.7465**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.4276**	**181.0857**	**39.9572**	**0.8301**	**30.2833**	**2.7195**	**33.0027**	**8.5255**	**2.5973**	**11.1228**		**88,850.4698**	**88,850.4698**	**1.9100**	**0.0253**	**88,905.7465**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916
Unmitigated	4.6686	173.5964	34.8604	0.8073	30.2833	2.4123	32.6956	8.5255	2.3077	10.8331		85,938.0528	85,938.0528	1.3856		85,972.6916

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Moreno Valley Trade Center - Warehouse (Operations - Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	29.00	1,213,270.00	0
Other Asphalt Surfaces	1,534.11	1000sqft	35.22	1,534,105.00	0
Parking Lot	521.00	Space	7.29	254,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Traffic Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum.

Area Coating -

Water And Wastewater -

Solid Waste -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	70.00	0.00
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.60
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.23
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	1,534,110.00	1,534,105.00
tblLandUse	LandUseSquareFeet	208,400.00	254,800.00
tblLandUse	LotAcreage	27.85	29.00
tblLandUse	LotAcreage	4.69	7.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39

tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66
tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003

tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12

tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41
tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003
tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01

tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07

tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46

tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49

tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02

tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09

tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76

tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80
tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02

tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003
tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46

tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41

tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003
tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003

tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77

tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50
tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04

tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003
tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003

tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003

tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02

tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72
tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03

tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71

tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003

tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96
tblVehicleTrips	ST_TR	1.68	0.06
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.02
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.66

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.3285**	**188.1507**	**36.7233**	**0.8302**	**30.2591**	**2.7194**	**32.9784**	**8.5167**	**2.5972**	**11.1139**		**88,059.3465**	**88,059.3465**	**0.7713**	**0.0253**	**88,086.1546**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.3285**	**188.1507**	**36.7233**	**0.8302**	**30.2591**	**2.7194**	**32.9784**	**8.5167**	**2.5972**	**11.1139**		**88,059.3465**	**88,059.3465**	**0.7713**	**0.0253**	**88,086.1546**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	5/31/2021	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Acres of Paving: 42.51

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997
Unmitigated	4.5696	180.6614	31.6265	0.8075	30.2591	2.4122	32.6713	8.5167	2.3076	10.8243		85,146.9294	85,146.9294	0.2468		85,153.0997

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	800.76	72.80	24.27	8,529,773	8,529,773
Total	848.76	120.80	72.27	9,228,653	9,228,653

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.169000	0.000000	0.227700	0.603300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Unmitigated	29.0226	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3447					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.6464					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0316	3.1000e-003	0.3393	3.0000e-005		1.2100e-003	1.2100e-003		1.2100e-003	1.2100e-003		0.7262	0.7262	1.9200e-003		0.7741
Total	**29.0226**	**3.1000e-003**	**0.3393**	**3.0000e-005**		**1.2100e-003**	**1.2100e-003**		**1.2100e-003**	**1.2100e-003**		**0.7262**	**0.7262**	**1.9200e-003**		**0.7741**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

ATTACHMENT B

HRA MODELING FILES

AVERAGE EMISSION FACTOR
RIVERSIDE 2022

Speed	LHD1	MHD	HHD
0	0.389075	0.130109	0.01485
5	0.037927	0.062152	0.04296
25	0.013603	0.0316	0.01812

Speed	Weighted Average Emissions
0	**0.10458**
5	**0.04647**
25	**0.02041**

Emission Rates - 2022 Emission Factors / Proposed Project (Warehouse)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling North	202			0.1046	5.27	6.097E-05
On-Site Idling South	202			0.1046	5.27	6.097E-05
On-Site Travel	806	926.33	0.0465		43.04	4.982E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	322	299.63	0.0204		6.12	7.079E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	121	68.59	0.0204		1.40	1.620E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	202	114.31	0.0204		2.33	2.701E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	40	19.17	0.0204		0.39	4.528E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	121	35.89	0.0204		0.73	8.480E-06
Off-Site Travel 10% Inbound SR-60	40	11.77	0.0204		0.24	2.780E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Emission Rates - 2022 Emission Factors / Proposed Project (Cold Storage)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates [d] (g/second)
On-Site Idling North	12			0.1046	1.39	1.614E-05
On-Site Idling South	12			0.1046	1.39	1.614E-05
On-Site Travel	48	55.17	0.0465		3.36	3.887E-05
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	19	17.84	0.0204		0.62	7.162E-06
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	7	4.08	0.0204		0.14	1.628E-06
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	12	6.81	0.0204		0.24	2.744E-06
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	2	1.14	0.0204		0.04	4.284E-07
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	7	2.14	0.0204		0.07	8.518E-07
Off-Site Travel 10% Inbound SR-60	2	0.70	0.0204		0.02	2.630E-07

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] This column includes TRU emissions expressed in grams per hour.

Proposed Project / Total Emissions	
On-Site Idling North	7.712E-05
On-Site Idling South	7.712E-05
On-Site Travel	5.370E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 t	7.795E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-6(	1.783E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60.	2.975E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60.	4.957E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-6(	9.332E-06
Off-Site Travel 10% Inbound SR-60	3.043E-06

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.043461
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018326
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076718
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027515
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.070223
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.035704
2022	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.015028
2022	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78701
2022	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.147006

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
RIVERSID	2022	HHDT	Aggregate	Aggregate	GAS	7.255052
RIVERSID	2022	HHDT	Aggregate	Aggregate	DSL	27819.82
RIVERSID	2022	HHDT	Aggregate	Aggregate	NG	316.9854
RIVERSID	2022	LHDT1	Aggregate	Aggregate	GAS	20620.88
RIVERSID	2022	LHDT1	Aggregate	Aggregate	DSL	20161.77
RIVERSID	2022	MHDT	Aggregate	Aggregate	GAS	2027.159
RIVERSID	2022	MHDT	Aggregate	Aggregate	DSL	15610.04

HHDT% GAS/NG	0.01152
HHDT% DSL	0.98848
LHDT1% GAS	0.50563
LHDT1% DSL	0.49437
MHDT% GAS	0.11494
MHDT% DSL	0.88506

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01221	1.22E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.2E-06	1.3E-07	5.0E+00	1.4E-03	2.4E-03							
TOTAL								1.3E-07			2.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								1.35E-01										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-05	3.4E-06	5.0E+00	1.4E-03	2.5E-03							
TOTAL								3.4E-06			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								3.37E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	6.9E-06	3.1E-06	5.0E+00	1.4E-03	2.5E-03							
TOTAL								3.1E-06			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								3.15E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.01265	1.27E-05	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	3.2E-06	4.9E-07	5.0E+00	1.4E-03	2.5E-03							
TOTAL								4.9E-07			2.5E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.49										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) **7.14**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	($mg/kg/day$)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	9.26E-03	9.26E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.5E-06	5.5E-07	5.0E+00	1.4E-03	1.9E-03							
	TOTAL								5.5E-07			1.9E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
									0.55										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 10.2.1
** Lakes Environmental Software Inc.
** Date: 4/25/2022
** File: C:\Lakes\AERMOD View\12974 HRA Update\12974 HCW\12974 HCW.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\AERMOD View\12974 HCW\12974 HCW.isc
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2189641
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "12974 HCW.err"
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC On-Site Idling North Side
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007712
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484870.384, 3754955.198, 531.72, 3.49, 4.00
** 485351.136, 3754957.509, 528.00, 3.49, 4.00
** ------------------------------------------------------------------------
   LOCATION L0005309     VOLUME   484874.679 3754955.219 531.63
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
LOCATION L0005310     VOLUME   484883.269 3754955.260 531.63
LOCATION L0005311     VOLUME   484891.859 3754955.301 531.63
LOCATION L0005312     VOLUME   484900.449 3754955.342 531.63
LOCATION L0005313     VOLUME   484909.039 3754955.384 531.63
LOCATION L0005314     VOLUME   484917.629 3754955.425 531.64
LOCATION L0005315     VOLUME   484926.219 3754955.466 531.64
LOCATION L0005316     VOLUME   484934.809 3754955.508 531.64
LOCATION L0005317     VOLUME   484943.398 3754955.549 531.64
LOCATION L0005318     VOLUME   484951.988 3754955.590 531.64
LOCATION L0005319     VOLUME   484960.578 3754955.632 531.63
LOCATION L0005320     VOLUME   484969.168 3754955.673 531.34
LOCATION L0005321     VOLUME   484977.758 3754955.714 531.06
LOCATION L0005322     VOLUME   484986.348 3754955.755 530.77
LOCATION L0005323     VOLUME   484994.938 3754955.797 530.65
LOCATION L0005324     VOLUME   485003.528 3754955.838 530.65
LOCATION L0005325     VOLUME   485012.118 3754955.879 530.65
LOCATION L0005326     VOLUME   485020.708 3754955.921 530.65
LOCATION L0005327     VOLUME   485029.297 3754955.962 530.65
LOCATION L0005328     VOLUME   485037.887 3754956.003 530.65
LOCATION L0005329     VOLUME   485046.477 3754956.045 530.66
LOCATION L0005330     VOLUME   485055.067 3754956.086 530.66
LOCATION L0005331     VOLUME   485063.657 3754956.127 530.66
LOCATION L0005332     VOLUME   485072.247 3754956.168 530.66
LOCATION L0005333     VOLUME   485080.837 3754956.210 530.64
LOCATION L0005334     VOLUME   485089.427 3754956.251 530.46
LOCATION L0005335     VOLUME   485098.017 3754956.292 530.27
LOCATION L0005336     VOLUME   485106.607 3754956.334 530.08
LOCATION L0005337     VOLUME   485115.196 3754956.375 529.94
LOCATION L0005338     VOLUME   485123.786 3754956.416 529.85
LOCATION L0005339     VOLUME   485132.376 3754956.458 529.75
LOCATION L0005340     VOLUME   485140.966 3754956.499 529.67
LOCATION L0005341     VOLUME   485149.556 3754956.540 529.67
LOCATION L0005342     VOLUME   485158.146 3754956.581 529.67
LOCATION L0005343     VOLUME   485166.736 3754956.623 529.68
LOCATION L0005344     VOLUME   485175.326 3754956.664 529.68
LOCATION L0005345     VOLUME   485183.916 3754956.705 529.68
LOCATION L0005346     VOLUME   485192.506 3754956.747 529.68
LOCATION L0005347     VOLUME   485201.096 3754956.788 529.66
LOCATION L0005348     VOLUME   485209.685 3754956.829 529.46
LOCATION L0005349     VOLUME   485218.275 3754956.871 529.27
LOCATION L0005350     VOLUME   485226.865 3754956.912 529.07
LOCATION L0005351     VOLUME   485235.455 3754956.953 528.94
LOCATION L0005352     VOLUME   485244.045 3754956.994 528.85
LOCATION L0005353     VOLUME   485252.635 3754957.036 528.77
LOCATION L0005354     VOLUME   485261.225 3754957.077 528.69
LOCATION L0005355     VOLUME   485269.815 3754957.118 528.69
LOCATION L0005356     VOLUME   485278.405 3754957.160 528.69
LOCATION L0005357     VOLUME   485286.995 3754957.201 528.69
LOCATION L0005358     VOLUME   485295.584 3754957.242 528.57
LOCATION L0005359     VOLUME   485304.174 3754957.283 528.37
```

```
   LOCATION L0005360     VOLUME   485312.764 3754957.325 528.17
   LOCATION L0005361     VOLUME   485321.354 3754957.366 528.00
   LOCATION L0005362     VOLUME   485329.944 3754957.407 528.00
   LOCATION L0005363     VOLUME   485338.534 3754957.449 528.00
   LOCATION L0005364     VOLUME   485347.124 3754957.490 528.00
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC On-Site Idling South Side
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007712
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 484815.683, 3754728.690, 526.00, 3.49, 4.00
** 485370.397, 3754731.001, 522.94, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0005365     VOLUME   484819.978 3754728.708 526.08
   LOCATION L0005366     VOLUME   484828.568 3754728.744 526.08
   LOCATION L0005367     VOLUME   484837.158 3754728.779 526.08
   LOCATION L0005368     VOLUME   484845.748 3754728.815 526.08
   LOCATION L0005369     VOLUME   484854.338 3754728.851 526.08
   LOCATION L0005370     VOLUME   484862.928 3754728.887 526.08
   LOCATION L0005371     VOLUME   484871.518 3754728.922 526.08
   LOCATION L0005372     VOLUME   484880.108 3754728.958 526.09
   LOCATION L0005373     VOLUME   484888.698 3754728.994 526.09
   LOCATION L0005374     VOLUME   484897.288 3754729.030 526.09
   LOCATION L0005375     VOLUME   484905.878 3754729.066 526.09
   LOCATION L0005376     VOLUME   484914.468 3754729.101 526.09
   LOCATION L0005377     VOLUME   484923.057 3754729.137 526.09
   LOCATION L0005378     VOLUME   484931.647 3754729.173 526.09
   LOCATION L0005379     VOLUME   484940.237 3754729.209 526.09
   LOCATION L0005380     VOLUME   484948.827 3754729.245 526.10
   LOCATION L0005381     VOLUME   484957.417 3754729.280 526.10
   LOCATION L0005382     VOLUME   484966.007 3754729.316 526.08
   LOCATION L0005383     VOLUME   484974.597 3754729.352 526.05
   LOCATION L0005384     VOLUME   484983.187 3754729.388 526.02
   LOCATION L0005385     VOLUME   484991.777 3754729.424 525.95
   LOCATION L0005386     VOLUME   485000.367 3754729.459 525.69
   LOCATION L0005387     VOLUME   485008.957 3754729.495 525.44
   LOCATION L0005388     VOLUME   485017.547 3754729.531 525.18
   LOCATION L0005389     VOLUME   485026.137 3754729.567 525.11
   LOCATION L0005390     VOLUME   485034.726 3754729.603 525.11
   LOCATION L0005391     VOLUME   485043.316 3754729.638 525.11
   LOCATION L0005392     VOLUME   485051.906 3754729.674 525.11
   LOCATION L0005393     VOLUME   485060.496 3754729.710 525.11
   LOCATION L0005394     VOLUME   485069.086 3754729.746 525.11
```

```
   LOCATION L0005395     VOLUME   485077.676 3754729.781 525.11
   LOCATION L0005396     VOLUME   485086.266 3754729.817 525.11
   LOCATION L0005397     VOLUME   485094.856 3754729.853 525.12
   LOCATION L0005398     VOLUME   485103.446 3754729.889 525.12
   LOCATION L0005399     VOLUME   485112.036 3754729.925 525.11
   LOCATION L0005400     VOLUME   485120.626 3754729.960 525.08
   LOCATION L0005401     VOLUME   485129.216 3754729.996 525.04
   LOCATION L0005402     VOLUME   485137.806 3754730.032 525.01
   LOCATION L0005403     VOLUME   485146.396 3754730.068 524.82
   LOCATION L0005404     VOLUME   485154.985 3754730.104 524.57
   LOCATION L0005405     VOLUME   485163.575 3754730.139 524.32
   LOCATION L0005406     VOLUME   485172.165 3754730.175 524.13
   LOCATION L0005407     VOLUME   485180.755 3754730.211 524.13
   LOCATION L0005408     VOLUME   485189.345 3754730.247 524.13
   LOCATION L0005409     VOLUME   485197.935 3754730.283 524.13
   LOCATION L0005410     VOLUME   485206.525 3754730.318 524.10
   LOCATION L0005411     VOLUME   485215.115 3754730.354 524.07
   LOCATION L0005412     VOLUME   485223.705 3754730.390 524.03
   LOCATION L0005413     VOLUME   485232.295 3754730.426 523.94
   LOCATION L0005414     VOLUME   485240.885 3754730.462 523.69
   LOCATION L0005415     VOLUME   485249.475 3754730.497 523.44
   LOCATION L0005416     VOLUME   485258.065 3754730.533 523.20
   LOCATION L0005417     VOLUME   485266.654 3754730.569 523.14
   LOCATION L0005418     VOLUME   485275.244 3754730.605 523.14
   LOCATION L0005419     VOLUME   485283.834 3754730.640 523.14
   LOCATION L0005420     VOLUME   485292.424 3754730.676 523.14
   LOCATION L0005421     VOLUME   485301.014 3754730.712 523.14
   LOCATION L0005422     VOLUME   485309.604 3754730.748 523.15
   LOCATION L0005423     VOLUME   485318.194 3754730.784 523.15
   LOCATION L0005424     VOLUME   485326.784 3754730.819 523.12
   LOCATION L0005425     VOLUME   485335.374 3754730.855 523.07
   LOCATION L0005426     VOLUME   485343.964 3754730.891 523.03
   LOCATION L0005427     VOLUME   485352.554 3754730.927 523.00
   LOCATION L0005428     VOLUME   485361.144 3754730.963 523.00
   LOCATION L0005429     VOLUME   485369.734 3754730.998 523.00
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC On-Site Travel
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.000537
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 13
** 484772.539, 3754992.949, 533.00, 3.49, 4.00
** 484762.523, 3754949.034, 531.92, 3.49, 4.00
** 484753.278, 3754931.314, 531.92, 3.49, 4.00
```

```
** 484747.115, 3754898.956, 530.86, 3.49, 4.00
** 484747.115, 3754715.592, 525.73, 3.49, 4.00
** 485421.246, 3754720.985, 522.62, 3.49, 4.00
** 485416.623, 3754970.607, 527.96, 3.49, 4.00
** 485368.856, 3754969.836, 528.00, 3.49, 4.00
** 484884.252, 3754970.607, 531.92, 3.49, 4.00
** 484842.649, 3754966.754, 531.99, 3.49, 4.00
** 484821.076, 3754957.509, 532.06, 3.49, 4.00
** 484794.882, 3754952.116, 532.37, 3.49, 4.00
** 484774.850, 3754950.575, 532.41, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0005430     VOLUME   484771.584 3754988.762 533.00
   LOCATION L0005431     VOLUME   484769.674 3754980.387 533.00
   LOCATION L0005432     VOLUME   484767.764 3754972.012 533.00
   LOCATION L0005433     VOLUME   484765.854 3754963.637 532.91
   LOCATION L0005434     VOLUME   484763.944 3754955.262 532.63
   LOCATION L0005435     VOLUME   484761.505 3754947.082 532.36
   LOCATION L0005436     VOLUME   484757.531 3754939.466 532.10
   LOCATION L0005437     VOLUME   484753.558 3754931.850 531.85
   LOCATION L0005438     VOLUME   484751.784 3754923.470 531.57
   LOCATION L0005439     VOLUME   484750.177 3754915.032 531.29
   LOCATION L0005440     VOLUME   484748.569 3754906.593 531.01
   LOCATION L0005441     VOLUME   484747.115 3754898.141 530.73
   LOCATION L0005442     VOLUME   484747.115 3754889.551 530.44
   LOCATION L0005443     VOLUME   484747.115 3754880.961 530.15
   LOCATION L0005444     VOLUME   484747.115 3754872.371 529.99
   LOCATION L0005445     VOLUME   484747.115 3754863.781 529.96
   LOCATION L0005446     VOLUME   484747.115 3754855.191 529.93
   LOCATION L0005447     VOLUME   484747.115 3754846.601 529.90
   LOCATION L0005448     VOLUME   484747.115 3754838.011 529.62
   LOCATION L0005449     VOLUME   484747.115 3754829.421 529.34
   LOCATION L0005450     VOLUME   484747.115 3754820.831 529.05
   LOCATION L0005451     VOLUME   484747.115 3754812.241 528.78
   LOCATION L0005452     VOLUME   484747.115 3754803.651 528.52
   LOCATION L0005453     VOLUME   484747.115 3754795.061 528.26
   LOCATION L0005454     VOLUME   484747.115 3754786.471 528.00
   LOCATION L0005455     VOLUME   484747.115 3754777.881 527.72
   LOCATION L0005456     VOLUME   484747.115 3754769.291 527.43
   LOCATION L0005457     VOLUME   484747.115 3754760.701 527.14
   LOCATION L0005458     VOLUME   484747.115 3754752.111 526.86
   LOCATION L0005459     VOLUME   484747.115 3754743.521 526.57
   LOCATION L0005460     VOLUME   484747.115 3754734.931 526.29
   LOCATION L0005461     VOLUME   484747.115 3754726.341 526.00
   LOCATION L0005462     VOLUME   484747.115 3754717.751 525.71
   LOCATION L0005463     VOLUME   484753.546 3754715.644 525.68
   LOCATION L0005464     VOLUME   484762.136 3754715.713 525.79
   LOCATION L0005465     VOLUME   484770.726 3754715.781 525.89
   LOCATION L0005466     VOLUME   484779.315 3754715.850 525.99
   LOCATION L0005467     VOLUME   484787.905 3754715.919 526.00
   LOCATION L0005468     VOLUME   484796.495 3754715.987 526.00
```

```
LOCATION L0005469     VOLUME   484805.085 3754716.056 526.00
LOCATION L0005470     VOLUME   484813.674 3754716.125 526.00
LOCATION L0005471     VOLUME   484822.264 3754716.194 526.00
LOCATION L0005472     VOLUME   484830.854 3754716.262 526.00
LOCATION L0005473     VOLUME   484839.444 3754716.331 526.00
LOCATION L0005474     VOLUME   484848.033 3754716.400 526.00
LOCATION L0005475     VOLUME   484856.623 3754716.469 526.00
LOCATION L0005476     VOLUME   484865.213 3754716.537 526.00
LOCATION L0005477     VOLUME   484873.802 3754716.606 525.96
LOCATION L0005478     VOLUME   484882.392 3754716.675 525.87
LOCATION L0005479     VOLUME   484890.982 3754716.743 525.78
LOCATION L0005480     VOLUME   484899.572 3754716.812 525.69
LOCATION L0005481     VOLUME   484908.161 3754716.881 525.68
LOCATION L0005482     VOLUME   484916.751 3754716.950 525.69
LOCATION L0005483     VOLUME   484925.341 3754717.018 525.69
LOCATION L0005484     VOLUME   484933.931 3754717.087 525.69
LOCATION L0005485     VOLUME   484942.520 3754717.156 525.69
LOCATION L0005486     VOLUME   484951.110 3754717.224 525.69
LOCATION L0005487     VOLUME   484959.700 3754717.293 525.70
LOCATION L0005488     VOLUME   484968.289 3754717.362 525.70
LOCATION L0005489     VOLUME   484976.879 3754717.431 525.70
LOCATION L0005490     VOLUME   484985.469 3754717.499 525.70
LOCATION L0005491     VOLUME   484994.059 3754717.568 525.61
LOCATION L0005492     VOLUME   485002.648 3754717.637 525.41
LOCATION L0005493     VOLUME   485011.238 3754717.705 525.21
LOCATION L0005494     VOLUME   485019.828 3754717.774 525.01
LOCATION L0005495     VOLUME   485028.418 3754717.843 525.00
LOCATION L0005496     VOLUME   485037.007 3754717.912 525.00
LOCATION L0005497     VOLUME   485045.597 3754717.980 525.00
LOCATION L0005498     VOLUME   485054.187 3754718.049 524.96
LOCATION L0005499     VOLUME   485062.776 3754718.118 524.88
LOCATION L0005500     VOLUME   485071.366 3754718.186 524.81
LOCATION L0005501     VOLUME   485079.956 3754718.255 524.73
LOCATION L0005502     VOLUME   485088.546 3754718.324 524.73
LOCATION L0005503     VOLUME   485097.135 3754718.393 524.73
LOCATION L0005504     VOLUME   485105.725 3754718.461 524.74
LOCATION L0005505     VOLUME   485114.315 3754718.530 524.74
LOCATION L0005506     VOLUME   485122.904 3754718.599 524.74
LOCATION L0005507     VOLUME   485131.494 3754718.667 524.74
LOCATION L0005508     VOLUME   485140.084 3754718.736 524.75
LOCATION L0005509     VOLUME   485148.674 3754718.805 524.53
LOCATION L0005510     VOLUME   485157.263 3754718.874 524.32
LOCATION L0005511     VOLUME   485165.853 3754718.942 524.11
LOCATION L0005512     VOLUME   485174.443 3754719.011 523.96
LOCATION L0005513     VOLUME   485183.033 3754719.080 523.90
LOCATION L0005514     VOLUME   485191.622 3754719.149 523.83
LOCATION L0005515     VOLUME   485200.212 3754719.217 523.76
LOCATION L0005516     VOLUME   485208.802 3754719.286 523.76
LOCATION L0005517     VOLUME   485217.391 3754719.355 523.77
LOCATION L0005518     VOLUME   485225.981 3754719.423 523.77
```

```
LOCATION L0005519     VOLUME   485234.571 3754719.492 523.66
LOCATION L0005520     VOLUME   485243.161 3754719.561 523.44
LOCATION L0005521     VOLUME   485251.750 3754719.630 523.22
LOCATION L0005522     VOLUME   485260.340 3754719.698 523.00
LOCATION L0005523     VOLUME   485268.930 3754719.767 523.00
LOCATION L0005524     VOLUME   485277.520 3754719.836 523.00
LOCATION L0005525     VOLUME   485286.109 3754719.904 523.00
LOCATION L0005526     VOLUME   485294.699 3754719.973 522.97
LOCATION L0005527     VOLUME   485303.289 3754720.042 522.91
LOCATION L0005528     VOLUME   485311.878 3754720.111 522.85
LOCATION L0005529     VOLUME   485320.468 3754720.179 522.79
LOCATION L0005530     VOLUME   485329.058 3754720.248 522.80
LOCATION L0005531     VOLUME   485337.648 3754720.317 522.80
LOCATION L0005532     VOLUME   485346.237 3754720.385 522.80
LOCATION L0005533     VOLUME   485354.827 3754720.454 522.80
LOCATION L0005534     VOLUME   485363.417 3754720.523 522.81
LOCATION L0005535     VOLUME   485372.007 3754720.592 522.81
LOCATION L0005536     VOLUME   485380.596 3754720.660 522.81
LOCATION L0005537     VOLUME   485389.186 3754720.729 522.81
LOCATION L0005538     VOLUME   485397.776 3754720.798 522.81
LOCATION L0005539     VOLUME   485406.365 3754720.866 522.82
LOCATION L0005540     VOLUME   485414.955 3754720.935 522.69
LOCATION L0005541     VOLUME   485421.203 3754723.284 522.57
LOCATION L0005542     VOLUME   485421.044 3754731.873 522.70
LOCATION L0005543     VOLUME   485420.885 3754740.461 522.81
LOCATION L0005544     VOLUME   485420.726 3754749.050 522.91
LOCATION L0005545     VOLUME   485420.567 3754757.638 523.04
LOCATION L0005546     VOLUME   485420.408 3754766.227 523.33
LOCATION L0005547     VOLUME   485420.249 3754774.815 523.61
LOCATION L0005548     VOLUME   485420.090 3754783.404 523.90
LOCATION L0005549     VOLUME   485419.931 3754791.992 524.19
LOCATION L0005550     VOLUME   485419.772 3754800.581 524.47
LOCATION L0005551     VOLUME   485419.613 3754809.169 524.76
LOCATION L0005552     VOLUME   485419.454 3754817.758 525.00
LOCATION L0005553     VOLUME   485419.295 3754826.347 525.00
LOCATION L0005554     VOLUME   485419.136 3754834.935 525.00
LOCATION L0005555     VOLUME   485418.977 3754843.524 525.00
LOCATION L0005556     VOLUME   485418.818 3754852.112 525.19
LOCATION L0005557     VOLUME   485418.659 3754860.701 525.48
LOCATION L0005558     VOLUME   485418.499 3754869.289 525.76
LOCATION L0005559     VOLUME   485418.340 3754877.878 526.04
LOCATION L0005560     VOLUME   485418.181 3754886.466 526.25
LOCATION L0005561     VOLUME   485418.022 3754895.055 526.46
LOCATION L0005562     VOLUME   485417.863 3754903.643 526.67
LOCATION L0005563     VOLUME   485417.704 3754912.232 526.80
LOCATION L0005564     VOLUME   485417.545 3754920.820 526.87
LOCATION L0005565     VOLUME   485417.386 3754929.409 526.94
LOCATION L0005566     VOLUME   485417.227 3754937.997 527.05
LOCATION L0005567     VOLUME   485417.068 3754946.586 527.34
LOCATION L0005568     VOLUME   485416.909 3754955.174 527.63
```

```
LOCATION L0005569     VOLUME   485416.750 3754963.763 527.91
LOCATION L0005570     VOLUME   485414.878 3754970.579 528.00
LOCATION L0005571     VOLUME   485406.289 3754970.440 528.02
LOCATION L0005572     VOLUME   485397.701 3754970.301 528.05
LOCATION L0005573     VOLUME   485389.112 3754970.163 528.09
LOCATION L0005574     VOLUME   485380.523 3754970.024 528.12
LOCATION L0005575     VOLUME   485371.934 3754969.886 528.12
LOCATION L0005576     VOLUME   485363.344 3754969.845 528.12
LOCATION L0005577     VOLUME   485354.754 3754969.859 528.12
LOCATION L0005578     VOLUME   485346.164 3754969.872 528.12
LOCATION L0005579     VOLUME   485337.574 3754969.886 528.12
LOCATION L0005580     VOLUME   485328.984 3754969.900 528.12
LOCATION L0005581     VOLUME   485320.394 3754969.913 528.12
LOCATION L0005582     VOLUME   485311.804 3754969.927 528.36
LOCATION L0005583     VOLUME   485303.214 3754969.941 528.61
LOCATION L0005584     VOLUME   485294.624 3754969.954 528.87
LOCATION L0005585     VOLUME   485286.034 3754969.968 529.02
LOCATION L0005586     VOLUME   485277.444 3754969.982 529.05
LOCATION L0005587     VOLUME   485268.854 3754969.995 529.09
LOCATION L0005588     VOLUME   485260.264 3754970.009 529.12
LOCATION L0005589     VOLUME   485251.674 3754970.023 529.12
LOCATION L0005590     VOLUME   485243.084 3754970.036 529.12
LOCATION L0005591     VOLUME   485234.495 3754970.050 529.12
LOCATION L0005592     VOLUME   485225.905 3754970.063 529.25
LOCATION L0005593     VOLUME   485217.315 3754970.077 529.50
LOCATION L0005594     VOLUME   485208.725 3754970.091 529.75
LOCATION L0005595     VOLUME   485200.135 3754970.104 530.00
LOCATION L0005596     VOLUME   485191.545 3754970.118 530.00
LOCATION L0005597     VOLUME   485182.955 3754970.132 530.00
LOCATION L0005598     VOLUME   485174.365 3754970.145 530.00
LOCATION L0005599     VOLUME   485165.775 3754970.159 530.02
LOCATION L0005600     VOLUME   485157.185 3754970.173 530.05
LOCATION L0005601     VOLUME   485148.595 3754970.186 530.09
LOCATION L0005602     VOLUME   485140.005 3754970.200 530.13
LOCATION L0005603     VOLUME   485131.415 3754970.214 530.13
LOCATION L0005604     VOLUME   485122.825 3754970.227 530.13
LOCATION L0005605     VOLUME   485114.235 3754970.241 530.13
LOCATION L0005606     VOLUME   485105.645 3754970.255 530.26
LOCATION L0005607     VOLUME   485097.055 3754970.268 530.51
LOCATION L0005608     VOLUME   485088.465 3754970.282 530.76
LOCATION L0005609     VOLUME   485079.875 3754970.296 531.00
LOCATION L0005610     VOLUME   485071.285 3754970.309 531.00
LOCATION L0005611     VOLUME   485062.695 3754970.323 531.00
LOCATION L0005612     VOLUME   485054.105 3754970.337 531.00
LOCATION L0005613     VOLUME   485045.515 3754970.350 531.02
LOCATION L0005614     VOLUME   485036.925 3754970.364 531.06
LOCATION L0005615     VOLUME   485028.335 3754970.378 531.10
LOCATION L0005616     VOLUME   485019.745 3754970.391 531.13
LOCATION L0005617     VOLUME   485011.155 3754970.405 531.13
LOCATION L0005618     VOLUME   485002.565 3754970.419 531.13
```

```
   LOCATION L0005619     VOLUME   484993.975 3754970.432 531.14
   LOCATION L0005620     VOLUME   484985.385 3754970.446 531.27
   LOCATION L0005621     VOLUME   484976.795 3754970.460 531.52
   LOCATION L0005622     VOLUME   484968.205 3754970.473 531.77
   LOCATION L0005623     VOLUME   484959.615 3754970.487 532.00
   LOCATION L0005624     VOLUME   484951.025 3754970.501 532.04
   LOCATION L0005625     VOLUME   484942.435 3754970.514 532.08
   LOCATION L0005626     VOLUME   484933.845 3754970.528 532.12
   LOCATION L0005627     VOLUME   484925.255 3754970.541 532.14
   LOCATION L0005628     VOLUME   484916.665 3754970.555 532.14
   LOCATION L0005629     VOLUME   484908.075 3754970.569 532.14
   LOCATION L0005630     VOLUME   484899.485 3754970.582 532.14
   LOCATION L0005631     VOLUME   484890.895 3754970.596 532.14
   LOCATION L0005632     VOLUME   484882.313 3754970.427 532.14
   LOCATION L0005633     VOLUME   484873.760 3754969.635 532.11
   LOCATION L0005634     VOLUME   484865.206 3754968.843 532.08
   LOCATION L0005635     VOLUME   484856.653 3754968.051 532.06
   LOCATION L0005636     VOLUME   484848.100 3754967.259 532.03
   LOCATION L0005637     VOLUME   484839.785 3754965.527 531.97
   LOCATION L0005638     VOLUME   484831.889 3754962.143 531.90
   LOCATION L0005639     VOLUME   484823.994 3754958.760 531.88
   LOCATION L0005640     VOLUME   484815.772 3754956.417 531.94
   LOCATION L0005641     VOLUME   484807.358 3754954.685 532.06
   LOCATION L0005642     VOLUME   484798.945 3754952.953 532.21
   LOCATION L0005643     VOLUME   484790.453 3754951.776 532.34
   LOCATION L0005644     VOLUME   484781.888 3754951.117 532.46
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00007795
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 14
** 484769.457, 3755016.833, 533.83, 3.49, 4.00
** 484624.615, 3755019.915, 534.83, 3.49, 4.00
** 484545.260, 3755029.160, 534.97, 3.49, 4.00
** 484437.399, 3755063.059, 534.93, 3.49, 4.00
** 484328.768, 3755112.367, 536.95, 3.49, 4.00
** 484294.098, 3755127.776, 536.94, 3.49, 4.00
** 484291.628, 3755128.293, 536.93, 3.49, 4.00
** 484223.200, 3755160.707, 537.60, 3.49, 4.00
** 484143.967, 3755193.120, 538.00, 3.49, 4.00
** 484071.937, 3755212.928, 537.93, 3.49, 4.00
** 483971.095, 3755220.131, 537.44, 3.49, 4.00
** 483717.190, 3755218.330, 536.93, 3.49, 4.00
```

```
** 483506.503, 3755223.733, 539.06, 3.49, 4.00
** 483510.104, 3755420.014, 547.91, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0005645     VOLUME   484765.163 3755016.924 533.68
   LOCATION L0005646     VOLUME   484756.575 3755017.107 533.69
   LOCATION L0005647     VOLUME   484747.987 3755017.290 533.70
   LOCATION L0005648     VOLUME   484739.399 3755017.472 533.70
   LOCATION L0005649     VOLUME   484730.811 3755017.655 533.71
   LOCATION L0005650     VOLUME   484722.223 3755017.838 533.72
   LOCATION L0005651     VOLUME   484713.635 3755018.021 533.78
   LOCATION L0005652     VOLUME   484705.047 3755018.203 533.86
   LOCATION L0005653     VOLUME   484696.459 3755018.386 533.94
   LOCATION L0005654     VOLUME   484687.871 3755018.569 534.00
   LOCATION L0005655     VOLUME   484679.283 3755018.751 534.00
   LOCATION L0005656     VOLUME   484670.695 3755018.934 534.00
   LOCATION L0005657     VOLUME   484662.107 3755019.117 534.00
   LOCATION L0005658     VOLUME   484653.518 3755019.300 534.17
   LOCATION L0005659     VOLUME   484644.930 3755019.482 534.39
   LOCATION L0005660     VOLUME   484636.342 3755019.665 534.61
   LOCATION L0005661     VOLUME   484627.754 3755019.848 534.78
   LOCATION L0005662     VOLUME   484619.202 3755020.545 534.81
   LOCATION L0005663     VOLUME   484610.669 3755021.539 534.84
   LOCATION L0005664     VOLUME   484602.137 3755022.533 534.87
   LOCATION L0005665     VOLUME   484593.605 3755023.527 534.90
   LOCATION L0005666     VOLUME   484585.072 3755024.521 534.94
   LOCATION L0005667     VOLUME   484576.540 3755025.516 534.97
   LOCATION L0005668     VOLUME   484568.008 3755026.510 535.00
   LOCATION L0005669     VOLUME   484559.476 3755027.504 535.00
   LOCATION L0005670     VOLUME   484550.943 3755028.498 535.00
   LOCATION L0005671     VOLUME   484542.524 3755030.020 535.00
   LOCATION L0005672     VOLUME   484534.329 3755032.595 535.00
   LOCATION L0005673     VOLUME   484526.134 3755035.171 535.00
   LOCATION L0005674     VOLUME   484517.939 3755037.746 535.00
   LOCATION L0005675     VOLUME   484509.745 3755040.322 535.00
   LOCATION L0005676     VOLUME   484501.550 3755042.897 535.00
   LOCATION L0005677     VOLUME   484493.355 3755045.473 535.00
   LOCATION L0005678     VOLUME   484485.160 3755048.048 535.00
   LOCATION L0005679     VOLUME   484476.965 3755050.624 535.00
   LOCATION L0005680     VOLUME   484468.770 3755053.199 535.00
   LOCATION L0005681     VOLUME   484460.576 3755055.775 535.00
   LOCATION L0005682     VOLUME   484452.381 3755058.351 535.07
   LOCATION L0005683     VOLUME   484444.186 3755060.926 535.15
   LOCATION L0005684     VOLUME   484436.055 3755063.669 535.24
   LOCATION L0005685     VOLUME   484428.233 3755067.219 535.36
   LOCATION L0005686     VOLUME   484420.411 3755070.770 535.48
   LOCATION L0005687     VOLUME   484412.589 3755074.320 535.60
   LOCATION L0005688     VOLUME   484404.768 3755077.871 535.72
   LOCATION L0005689     VOLUME   484396.946 3755081.421 535.83
   LOCATION L0005690     VOLUME   484389.124 3755084.971 535.95
   LOCATION L0005691     VOLUME   484381.302 3755088.522 536.07
```

```
LOCATION L0005692     VOLUME   484373.480 3755092.072 536.19
LOCATION L0005693     VOLUME   484365.658 3755095.623 536.31
LOCATION L0005694     VOLUME   484357.836 3755099.173 536.43
LOCATION L0005695     VOLUME   484350.014 3755102.723 536.54
LOCATION L0005696     VOLUME   484342.192 3755106.274 536.66
LOCATION L0005697     VOLUME   484334.370 3755109.824 536.78
LOCATION L0005698     VOLUME   484326.540 3755113.357 536.90
LOCATION L0005699     VOLUME   484318.691 3755116.846 537.00
LOCATION L0005700     VOLUME   484310.841 3755120.334 537.00
LOCATION L0005701     VOLUME   484302.991 3755123.823 537.00
LOCATION L0005702     VOLUME   484295.142 3755127.312 537.00
LOCATION L0005703     VOLUME   484287.178 3755130.401 537.00
LOCATION L0005704     VOLUME   484279.415 3755134.078 537.00
LOCATION L0005705     VOLUME   484271.651 3755137.756 537.00
LOCATION L0005706     VOLUME   484263.888 3755141.433 537.00
LOCATION L0005707     VOLUME   484256.125 3755145.110 537.00
LOCATION L0005708     VOLUME   484248.362 3755148.787 537.08
LOCATION L0005709     VOLUME   484240.599 3755152.465 537.20
LOCATION L0005710     VOLUME   484232.836 3755156.142 537.33
LOCATION L0005711     VOLUME   484225.073 3755159.819 537.45
LOCATION L0005712     VOLUME   484217.168 3755163.174 537.56
LOCATION L0005713     VOLUME   484209.217 3755166.427 537.67
LOCATION L0005714     VOLUME   484201.267 3755169.679 537.78
LOCATION L0005715     VOLUME   484193.316 3755172.932 537.88
LOCATION L0005716     VOLUME   484185.366 3755176.184 537.99
LOCATION L0005717     VOLUME   484177.415 3755179.436 538.00
LOCATION L0005718     VOLUME   484169.465 3755182.689 538.00
LOCATION L0005719     VOLUME   484161.514 3755185.941 538.00
LOCATION L0005720     VOLUME   484153.564 3755189.194 538.00
LOCATION L0005721     VOLUME   484145.614 3755192.446 538.00
LOCATION L0005722     VOLUME   484137.400 3755194.926 538.00
LOCATION L0005723     VOLUME   484129.117 3755197.204 538.00
LOCATION L0005724     VOLUME   484120.835 3755199.481 538.00
LOCATION L0005725     VOLUME   484112.552 3755201.759 537.96
LOCATION L0005726     VOLUME   484104.270 3755204.037 537.96
LOCATION L0005727     VOLUME   484095.987 3755206.314 538.00
LOCATION L0005728     VOLUME   484087.705 3755208.592 538.07
LOCATION L0005729     VOLUME   484079.422 3755210.870 538.15
LOCATION L0005730     VOLUME   484071.112 3755212.987 538.22
LOCATION L0005731     VOLUME   484062.544 3755213.599 538.24
LOCATION L0005732     VOLUME   484053.976 3755214.211 538.26
LOCATION L0005733     VOLUME   484045.408 3755214.823 538.28
LOCATION L0005734     VOLUME   484036.839 3755215.435 538.30
LOCATION L0005735     VOLUME   484028.271 3755216.047 538.30
LOCATION L0005736     VOLUME   484019.703 3755216.659 538.22
LOCATION L0005737     VOLUME   484011.135 3755217.271 538.13
LOCATION L0005738     VOLUME   484002.567 3755217.883 538.03
LOCATION L0005739     VOLUME   483993.999 3755218.495 537.88
LOCATION L0005740     VOLUME   483985.430 3755219.107 537.72
LOCATION L0005741     VOLUME   483976.862 3755219.719 537.57
```

```
LOCATION L0005742     VOLUME   483968.287 3755220.111 537.46
LOCATION L0005743     VOLUME   483959.697 3755220.050 537.46
LOCATION L0005744     VOLUME   483951.107 3755219.989 537.45
LOCATION L0005745     VOLUME   483942.518 3755219.928 537.45
LOCATION L0005746     VOLUME   483933.928 3755219.868 537.45
LOCATION L0005747     VOLUME   483925.338 3755219.807 537.45
LOCATION L0005748     VOLUME   483916.748 3755219.746 537.45
LOCATION L0005749     VOLUME   483908.159 3755219.685 537.44
LOCATION L0005750     VOLUME   483899.569 3755219.624 537.44
LOCATION L0005751     VOLUME   483890.979 3755219.563 537.44
LOCATION L0005752     VOLUME   483882.389 3755219.502 537.44
LOCATION L0005753     VOLUME   483873.799 3755219.441 537.44
LOCATION L0005754     VOLUME   483865.210 3755219.380 537.43
LOCATION L0005755     VOLUME   483856.620 3755219.319 537.43
LOCATION L0005756     VOLUME   483848.030 3755219.258 537.40
LOCATION L0005757     VOLUME   483839.440 3755219.197 537.28
LOCATION L0005758     VOLUME   483830.850 3755219.137 537.15
LOCATION L0005759     VOLUME   483822.261 3755219.076 537.03
LOCATION L0005760     VOLUME   483813.671 3755219.015 536.88
LOCATION L0005761     VOLUME   483805.081 3755218.954 536.71
LOCATION L0005762     VOLUME   483796.491 3755218.893 536.54
LOCATION L0005763     VOLUME   483787.902 3755218.832 536.46
LOCATION L0005764     VOLUME   483779.312 3755218.771 536.62
LOCATION L0005765     VOLUME   483770.722 3755218.710 536.79
LOCATION L0005766     VOLUME   483762.132 3755218.649 536.96
LOCATION L0005767     VOLUME   483753.542 3755218.588 537.00
LOCATION L0005768     VOLUME   483744.953 3755218.527 537.00
LOCATION L0005769     VOLUME   483736.363 3755218.466 537.00
LOCATION L0005770     VOLUME   483727.773 3755218.405 537.00
LOCATION L0005771     VOLUME   483719.183 3755218.345 537.00
LOCATION L0005772     VOLUME   483710.596 3755218.500 537.00
LOCATION L0005773     VOLUME   483702.008 3755218.720 537.00
LOCATION L0005774     VOLUME   483693.421 3755218.940 537.00
LOCATION L0005775     VOLUME   483684.834 3755219.160 537.00
LOCATION L0005776     VOLUME   483676.247 3755219.380 537.00
LOCATION L0005777     VOLUME   483667.660 3755219.600 537.08
LOCATION L0005778     VOLUME   483659.072 3755219.821 537.37
LOCATION L0005779     VOLUME   483650.485 3755220.041 537.65
LOCATION L0005780     VOLUME   483641.898 3755220.261 537.94
LOCATION L0005781     VOLUME   483633.311 3755220.481 538.12
LOCATION L0005782     VOLUME   483624.724 3755220.701 538.27
LOCATION L0005783     VOLUME   483616.137 3755220.922 538.41
LOCATION L0005784     VOLUME   483607.549 3755221.142 538.59
LOCATION L0005785     VOLUME   483598.962 3755221.362 538.87
LOCATION L0005786     VOLUME   483590.375 3755221.582 539.16
LOCATION L0005787     VOLUME   483581.788 3755221.802 539.45
LOCATION L0005788     VOLUME   483573.201 3755222.022 539.40
LOCATION L0005789     VOLUME   483564.613 3755222.243 539.26
LOCATION L0005790     VOLUME   483556.026 3755222.463 539.11
LOCATION L0005791     VOLUME   483547.439 3755222.683 539.00
```

```
   LOCATION L0005792     VOLUME   483538.852 3755222.903 539.00
   LOCATION L0005793     VOLUME   483530.265 3755223.123 539.00
   LOCATION L0005794     VOLUME   483521.678 3755223.344 539.00
   LOCATION L0005795     VOLUME   483513.090 3755223.564 539.00
   LOCATION L0005796     VOLUME   483506.539 3755225.733 539.00
   LOCATION L0005797     VOLUME   483506.697 3755234.321 539.00
   LOCATION L0005798     VOLUME   483506.855 3755242.910 539.31
   LOCATION L0005799     VOLUME   483507.012 3755251.498 539.72
   LOCATION L0005800     VOLUME   483507.170 3755260.087 540.13
   LOCATION L0005801     VOLUME   483507.327 3755268.675 540.54
   LOCATION L0005802     VOLUME   483507.485 3755277.264 540.99
   LOCATION L0005803     VOLUME   483507.643 3755285.852 541.44
   LOCATION L0005804     VOLUME   483507.800 3755294.441 541.90
   LOCATION L0005805     VOLUME   483507.958 3755303.029 542.31
   LOCATION L0005806     VOLUME   483508.115 3755311.618 542.71
   LOCATION L0005807     VOLUME   483508.273 3755320.207 543.10
   LOCATION L0005808     VOLUME   483508.431 3755328.795 543.71
   LOCATION L0005809     VOLUME   483508.588 3755337.384 544.85
   LOCATION L0005810     VOLUME   483508.746 3755345.972 545.99
   LOCATION L0005811     VOLUME   483508.903 3755354.561 547.13
   LOCATION L0005812     VOLUME   483509.061 3755363.149 547.59
   LOCATION L0005813     VOLUME   483509.218 3755371.738 547.87
   LOCATION L0005814     VOLUME   483509.376 3755380.326 548.15
   LOCATION L0005815     VOLUME   483509.534 3755388.915 548.32
   LOCATION L0005816     VOLUME   483509.691 3755397.504 548.22
   LOCATION L0005817     VOLUME   483509.849 3755406.092 548.12
   LOCATION L0005818     VOLUME   483510.006 3755414.681 548.02
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC 30% Inbound Dwy 1. from SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00001783
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0005819     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0005820     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0005821     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0005822     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0005823     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0005824     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0005825     VOLUME   484833.664 3755018.721 533.74
```

```
LOCATION L0005826     VOLUME   484842.254 3755018.763 533.75
LOCATION L0005827     VOLUME   484850.843 3755018.805 533.75
LOCATION L0005828     VOLUME   484859.433 3755018.847 533.75
LOCATION L0005829     VOLUME   484868.023 3755018.889 533.75
LOCATION L0005830     VOLUME   484876.613 3755018.931 533.59
LOCATION L0005831     VOLUME   484885.203 3755018.973 533.37
LOCATION L0005832     VOLUME   484893.793 3755019.015 533.16
LOCATION L0005833     VOLUME   484902.383 3755019.057 533.00
LOCATION L0005834     VOLUME   484910.973 3755019.099 533.00
LOCATION L0005835     VOLUME   484919.563 3755019.141 533.00
LOCATION L0005836     VOLUME   484928.152 3755019.183 533.00
LOCATION L0005837     VOLUME   484936.742 3755019.225 532.95
LOCATION L0005838     VOLUME   484945.332 3755019.267 532.88
LOCATION L0005839     VOLUME   484953.922 3755019.309 532.81
LOCATION L0005840     VOLUME   484962.512 3755019.351 532.77
LOCATION L0005841     VOLUME   484971.102 3755019.393 532.77
LOCATION L0005842     VOLUME   484979.692 3755019.435 532.77
LOCATION L0005843     VOLUME   484988.282 3755019.477 532.77
LOCATION L0005844     VOLUME   484996.872 3755019.519 532.77
LOCATION L0005845     VOLUME   485005.462 3755019.561 532.77
LOCATION L0005846     VOLUME   485014.051 3755019.603 532.77
LOCATION L0005847     VOLUME   485022.641 3755019.645 532.69
LOCATION L0005848     VOLUME   485031.231 3755019.687 532.41
LOCATION L0005849     VOLUME   485039.821 3755019.729 532.12
LOCATION L0005850     VOLUME   485048.411 3755019.771 531.84
LOCATION L0005851     VOLUME   485057.001 3755019.813 531.78
LOCATION L0005852     VOLUME   485065.591 3755019.855 531.78
LOCATION L0005853     VOLUME   485074.181 3755019.897 531.78
LOCATION L0005854     VOLUME   485082.771 3755019.939 531.79
LOCATION L0005855     VOLUME   485091.361 3755019.981 531.79
LOCATION L0005856     VOLUME   485099.950 3755020.023 531.79
LOCATION L0005857     VOLUME   485108.540 3755020.065 531.79
LOCATION L0005858     VOLUME   485117.130 3755020.107 531.61
LOCATION L0005859     VOLUME   485125.720 3755020.149 531.38
LOCATION L0005860     VOLUME   485134.310 3755020.191 531.15
LOCATION L0005861     VOLUME   485142.900 3755020.233 530.98
LOCATION L0005862     VOLUME   485151.490 3755020.275 530.92
LOCATION L0005863     VOLUME   485160.080 3755020.317 530.87
LOCATION L0005864     VOLUME   485168.670 3755020.359 530.81
LOCATION L0005865     VOLUME   485177.260 3755020.401 530.80
LOCATION L0005866     VOLUME   485185.849 3755020.443 530.80
LOCATION L0005867     VOLUME   485194.439 3755020.485 530.80
LOCATION L0005868     VOLUME   485203.029 3755020.527 530.81
LOCATION L0005869     VOLUME   485211.619 3755020.569 530.81
LOCATION L0005870     VOLUME   485220.209 3755020.611 530.81
LOCATION L0005871     VOLUME   485228.799 3755020.653 530.81
LOCATION L0005872     VOLUME   485237.389 3755020.695 530.61
LOCATION L0005873     VOLUME   485245.979 3755020.737 530.38
LOCATION L0005874     VOLUME   485254.569 3755020.779 530.15
LOCATION L0005875     VOLUME   485263.158 3755020.821 529.98
```

```
   LOCATION L0005876     VOLUME   485271.748 3755020.863 529.93
   LOCATION L0005877     VOLUME   485280.338 3755020.905 529.88
   LOCATION L0005878     VOLUME   485288.928 3755020.947 529.83
   LOCATION L0005879     VOLUME   485297.518 3755020.989 529.82
   LOCATION L0005880     VOLUME   485306.108 3755021.031 529.82
   LOCATION L0005881     VOLUME   485314.698 3755021.073 529.82
   LOCATION L0005882     VOLUME   485323.288 3755021.115 529.82
   LOCATION L0005883     VOLUME   485331.878 3755021.157 529.83
   LOCATION L0005884     VOLUME   485340.468 3755021.199 529.83
   LOCATION L0005885     VOLUME   485349.057 3755021.241 529.83
   LOCATION L0005886     VOLUME   485357.647 3755021.283 529.62
   LOCATION L0005887     VOLUME   485366.237 3755021.325 529.38
   LOCATION L0005888     VOLUME   485374.827 3755021.367 529.15
   LOCATION L0005889     VOLUME   485383.417 3755021.409 528.98
   LOCATION L0005890     VOLUME   485392.007 3755021.451 528.93
   LOCATION L0005891     VOLUME   485400.597 3755021.493 528.89
   LOCATION L0005892     VOLUME   485409.187 3755021.535 528.84
   LOCATION L0005893     VOLUME   485417.777 3755021.577 528.84
   LOCATION L0005894     VOLUME   485426.367 3755021.619 528.84
   LOCATION L0005895     VOLUME   485434.956 3755021.661 528.84
   LOCATION L0005896     VOLUME   485443.546 3755021.703 528.84
   LOCATION L0005897     VOLUME   485452.136 3755021.745 528.85
   LOCATION L0005898     VOLUME   485460.726 3755021.787 528.85
   LOCATION L0005899     VOLUME   485469.316 3755021.829 528.85
   LOCATION L0005900     VOLUME   485477.906 3755021.871 528.85
   LOCATION L0005901     VOLUME   485486.496 3755021.913 528.85
   LOCATION L0005902     VOLUME   485495.086 3755021.955 528.85
   LOCATION L0005903     VOLUME   485503.676 3755021.997 528.85
   LOCATION L0005904     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0005905     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0005906     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0005907     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0005908     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0005909     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0005910     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0005911     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0005912     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0005913     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0005914     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0005915     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0005916     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0005917     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0005918     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0005919     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0005920     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0005921     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0005922     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0005923     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0005924     VOLUME   485510.871 3755191.745 532.51
** End of LINE VOLUME Source ID = SLINE5
```

```
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC 50% Outbound Dwy 1. to SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 0.00002975
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0005925     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0005926     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0005927     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0005928     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0005929     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0005930     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0005931     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0005932     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0005933     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0005934     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0005935     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0005936     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0005937     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0005938     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0005939     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0005940     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0005941     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0005942     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0005943     VOLUME   484936.742 3755019.225 532.95
   LOCATION L0005944     VOLUME   484945.332 3755019.267 532.88
   LOCATION L0005945     VOLUME   484953.922 3755019.309 532.81
   LOCATION L0005946     VOLUME   484962.512 3755019.351 532.77
   LOCATION L0005947     VOLUME   484971.102 3755019.393 532.77
   LOCATION L0005948     VOLUME   484979.692 3755019.435 532.77
   LOCATION L0005949     VOLUME   484988.282 3755019.477 532.77
   LOCATION L0005950     VOLUME   484996.872 3755019.519 532.77
   LOCATION L0005951     VOLUME   485005.462 3755019.561 532.77
   LOCATION L0005952     VOLUME   485014.051 3755019.603 532.77
   LOCATION L0005953     VOLUME   485022.641 3755019.645 532.69
   LOCATION L0005954     VOLUME   485031.231 3755019.687 532.41
   LOCATION L0005955     VOLUME   485039.821 3755019.729 532.12
   LOCATION L0005956     VOLUME   485048.411 3755019.771 531.84
   LOCATION L0005957     VOLUME   485057.001 3755019.813 531.78
   LOCATION L0005958     VOLUME   485065.591 3755019.855 531.78
   LOCATION L0005959     VOLUME   485074.181 3755019.897 531.78
```

```
LOCATION L0005960     VOLUME   485082.771 3755019.939 531.79
LOCATION L0005961     VOLUME   485091.361 3755019.981 531.79
LOCATION L0005962     VOLUME   485099.950 3755020.023 531.79
LOCATION L0005963     VOLUME   485108.540 3755020.065 531.79
LOCATION L0005964     VOLUME   485117.130 3755020.107 531.61
LOCATION L0005965     VOLUME   485125.720 3755020.149 531.38
LOCATION L0005966     VOLUME   485134.310 3755020.191 531.15
LOCATION L0005967     VOLUME   485142.900 3755020.233 530.98
LOCATION L0005968     VOLUME   485151.490 3755020.275 530.92
LOCATION L0005969     VOLUME   485160.080 3755020.317 530.87
LOCATION L0005970     VOLUME   485168.670 3755020.359 530.81
LOCATION L0005971     VOLUME   485177.260 3755020.401 530.80
LOCATION L0005972     VOLUME   485185.849 3755020.443 530.80
LOCATION L0005973     VOLUME   485194.439 3755020.485 530.80
LOCATION L0005974     VOLUME   485203.029 3755020.527 530.81
LOCATION L0005975     VOLUME   485211.619 3755020.569 530.81
LOCATION L0005976     VOLUME   485220.209 3755020.611 530.81
LOCATION L0005977     VOLUME   485228.799 3755020.653 530.81
LOCATION L0005978     VOLUME   485237.389 3755020.695 530.61
LOCATION L0005979     VOLUME   485245.979 3755020.737 530.38
LOCATION L0005980     VOLUME   485254.569 3755020.779 530.15
LOCATION L0005981     VOLUME   485263.158 3755020.821 529.98
LOCATION L0005982     VOLUME   485271.748 3755020.863 529.93
LOCATION L0005983     VOLUME   485280.338 3755020.905 529.88
LOCATION L0005984     VOLUME   485288.928 3755020.947 529.83
LOCATION L0005985     VOLUME   485297.518 3755020.989 529.82
LOCATION L0005986     VOLUME   485306.108 3755021.031 529.82
LOCATION L0005987     VOLUME   485314.698 3755021.073 529.82
LOCATION L0005988     VOLUME   485323.288 3755021.115 529.82
LOCATION L0005989     VOLUME   485331.878 3755021.157 529.83
LOCATION L0005990     VOLUME   485340.468 3755021.199 529.83
LOCATION L0005991     VOLUME   485349.057 3755021.241 529.83
LOCATION L0005992     VOLUME   485357.647 3755021.283 529.62
LOCATION L0005993     VOLUME   485366.237 3755021.325 529.38
LOCATION L0005994     VOLUME   485374.827 3755021.367 529.15
LOCATION L0005995     VOLUME   485383.417 3755021.409 528.98
LOCATION L0005996     VOLUME   485392.007 3755021.451 528.93
LOCATION L0005997     VOLUME   485400.597 3755021.493 528.89
LOCATION L0005998     VOLUME   485409.187 3755021.535 528.84
LOCATION L0005999     VOLUME   485417.777 3755021.577 528.84
LOCATION L0006000     VOLUME   485426.367 3755021.619 528.84
LOCATION L0006001     VOLUME   485434.956 3755021.661 528.84
LOCATION L0006002     VOLUME   485443.546 3755021.703 528.84
LOCATION L0006003     VOLUME   485452.136 3755021.745 528.85
LOCATION L0006004     VOLUME   485460.726 3755021.787 528.85
LOCATION L0006005     VOLUME   485469.316 3755021.829 528.85
LOCATION L0006006     VOLUME   485477.906 3755021.871 528.85
LOCATION L0006007     VOLUME   485486.496 3755021.913 528.85
LOCATION L0006008     VOLUME   485495.086 3755021.955 528.85
LOCATION L0006009     VOLUME   485503.676 3755021.997 528.85
```

```
   LOCATION L0006010     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0006011     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0006012     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0006013     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0006014     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0006015     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0006016     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0006017     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0006018     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0006019     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0006020     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0006021     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0006022     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0006023     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0006024     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0006025     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0006026     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0006027     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0006028     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0006029     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0006030     VOLUME   485510.871 3755191.745 532.51
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC 10% Outbound Dwy 5. to SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 4.957E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 4
** 485402.321, 3755019.754, 528.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485512.931, 3755294.370, 536.00, 3.49, 4.00
** 485517.265, 3755675.383, 544.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0006031     VOLUME   485406.615 3755019.842 528.81
   LOCATION L0006032     VOLUME   485415.203 3755020.018 528.79
   LOCATION L0006033     VOLUME   485423.792 3755020.194 528.79
   LOCATION L0006034     VOLUME   485432.380 3755020.370 528.80
   LOCATION L0006035     VOLUME   485440.968 3755020.546 528.81
   LOCATION L0006036     VOLUME   485449.556 3755020.722 528.81
   LOCATION L0006037     VOLUME   485458.144 3755020.898 528.82
   LOCATION L0006038     VOLUME   485466.733 3755021.074 528.82
   LOCATION L0006039     VOLUME   485475.321 3755021.250 528.83
   LOCATION L0006040     VOLUME   485483.909 3755021.426 528.84
   LOCATION L0006041     VOLUME   485492.497 3755021.602 528.84
   LOCATION L0006042     VOLUME   485501.085 3755021.778 528.85
```

```
LOCATION L0006043     VOLUME   485509.674 3755021.954 528.85
LOCATION L0006044     VOLUME   485514.314 3755025.977 528.99
LOCATION L0006045     VOLUME   485514.270 3755034.567 529.00
LOCATION L0006046     VOLUME   485514.226 3755043.157 529.00
LOCATION L0006047     VOLUME   485514.181 3755051.747 529.00
LOCATION L0006048     VOLUME   485514.137 3755060.337 529.13
LOCATION L0006049     VOLUME   485514.093 3755068.927 529.42
LOCATION L0006050     VOLUME   485514.049 3755077.517 529.71
LOCATION L0006051     VOLUME   485514.004 3755086.107 529.99
LOCATION L0006052     VOLUME   485513.960 3755094.696 530.28
LOCATION L0006053     VOLUME   485513.916 3755103.286 530.56
LOCATION L0006054     VOLUME   485513.872 3755111.876 530.85
LOCATION L0006055     VOLUME   485513.827 3755120.466 531.06
LOCATION L0006056     VOLUME   485513.783 3755129.056 531.19
LOCATION L0006057     VOLUME   485513.739 3755137.646 531.32
LOCATION L0006058     VOLUME   485513.694 3755146.236 531.45
LOCATION L0006059     VOLUME   485513.650 3755154.826 531.61
LOCATION L0006060     VOLUME   485513.606 3755163.416 531.76
LOCATION L0006061     VOLUME   485513.562 3755172.005 531.92
LOCATION L0006062     VOLUME   485513.517 3755180.595 532.14
LOCATION L0006063     VOLUME   485513.473 3755189.185 532.43
LOCATION L0006064     VOLUME   485513.429 3755197.775 532.71
LOCATION L0006065     VOLUME   485513.385 3755206.365 533.00
LOCATION L0006066     VOLUME   485513.340 3755214.955 533.57
LOCATION L0006067     VOLUME   485513.296 3755223.545 534.15
LOCATION L0006068     VOLUME   485513.252 3755232.135 534.72
LOCATION L0006069     VOLUME   485513.208 3755240.724 535.15
LOCATION L0006070     VOLUME   485513.163 3755249.314 535.43
LOCATION L0006071     VOLUME   485513.119 3755257.904 535.72
LOCATION L0006072     VOLUME   485513.075 3755266.494 536.00
LOCATION L0006073     VOLUME   485513.031 3755275.084 536.00
LOCATION L0006074     VOLUME   485512.986 3755283.674 536.00
LOCATION L0006075     VOLUME   485512.942 3755292.264 536.00
LOCATION L0006076     VOLUME   485513.005 3755300.853 536.00
LOCATION L0006077     VOLUME   485513.103 3755309.443 536.00
LOCATION L0006078     VOLUME   485513.200 3755318.032 536.00
LOCATION L0006079     VOLUME   485513.298 3755326.622 536.00
LOCATION L0006080     VOLUME   485513.396 3755335.211 536.13
LOCATION L0006081     VOLUME   485513.494 3755343.801 536.26
LOCATION L0006082     VOLUME   485513.591 3755352.390 536.39
LOCATION L0006083     VOLUME   485513.689 3755360.979 536.54
LOCATION L0006084     VOLUME   485513.787 3755369.569 536.70
LOCATION L0006085     VOLUME   485513.884 3755378.158 536.85
LOCATION L0006086     VOLUME   485513.982 3755386.748 537.01
LOCATION L0006087     VOLUME   485514.080 3755395.337 537.30
LOCATION L0006088     VOLUME   485514.177 3755403.927 537.59
LOCATION L0006089     VOLUME   485514.275 3755412.516 537.87
LOCATION L0006090     VOLUME   485514.373 3755421.106 538.08
LOCATION L0006091     VOLUME   485514.471 3755429.695 538.23
LOCATION L0006092     VOLUME   485514.568 3755438.284 538.38
```

```
   LOCATION L0006093     VOLUME   485514.666 3755446.874 538.52
   LOCATION L0006094     VOLUME   485514.764 3755455.463 538.66
   LOCATION L0006095     VOLUME   485514.861 3755464.053 538.80
   LOCATION L0006096     VOLUME   485514.959 3755472.642 538.94
   LOCATION L0006097     VOLUME   485515.057 3755481.232 539.16
   LOCATION L0006098     VOLUME   485515.154 3755489.821 539.45
   LOCATION L0006099     VOLUME   485515.252 3755498.411 539.74
   LOCATION L0006100     VOLUME   485515.350 3755507.000 540.02
   LOCATION L0006101     VOLUME   485515.448 3755515.589 540.31
   LOCATION L0006102     VOLUME   485515.545 3755524.179 540.59
   LOCATION L0006103     VOLUME   485515.643 3755532.768 540.88
   LOCATION L0006104     VOLUME   485515.741 3755541.358 541.00
   LOCATION L0006105     VOLUME   485515.838 3755549.947 541.00
   LOCATION L0006106     VOLUME   485515.936 3755558.537 541.00
   LOCATION L0006107     VOLUME   485516.034 3755567.126 541.03
   LOCATION L0006108     VOLUME   485516.131 3755575.716 541.31
   LOCATION L0006109     VOLUME   485516.229 3755584.305 541.60
   LOCATION L0006110     VOLUME   485516.327 3755592.894 541.88
   LOCATION L0006111     VOLUME   485516.425 3755601.484 542.17
   LOCATION L0006112     VOLUME   485516.522 3755610.073 542.46
   LOCATION L0006113     VOLUME   485516.620 3755618.663 542.74
   LOCATION L0006114     VOLUME   485516.718 3755627.252 543.03
   LOCATION L0006115     VOLUME   485516.815 3755635.842 543.32
   LOCATION L0006116     VOLUME   485516.913 3755644.431 543.60
   LOCATION L0006117     VOLUME   485517.011 3755653.021 543.89
   LOCATION L0006118     VOLUME   485517.108 3755661.610 544.00
   LOCATION L0006119     VOLUME   485517.206 3755670.199 544.00
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC 30% Inbound Dwy. 7 from SR-60/Redlands
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 9.332E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 485512.451, 3754714.703, 521.72, 3.49, 4.00
** 485512.451, 3755192.518, 532.71, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0006120     VOLUME   485512.451 3754718.998 521.75
   LOCATION L0006121     VOLUME   485512.451 3754727.588 522.02
   LOCATION L0006122     VOLUME   485512.451 3754736.178 522.19
   LOCATION L0006123     VOLUME   485512.451 3754744.768 522.36
   LOCATION L0006124     VOLUME   485512.451 3754753.358 522.53
   LOCATION L0006125     VOLUME   485512.451 3754761.948 522.67
   LOCATION L0006126     VOLUME   485512.451 3754770.538 522.78
   LOCATION L0006127     VOLUME   485512.451 3754779.128 522.90
```

```
   LOCATION L0006128     VOLUME   485512.451 3754787.718 523.05
   LOCATION L0006129     VOLUME   485512.451 3754796.308 523.33
   LOCATION L0006130     VOLUME   485512.451 3754804.898 523.62
   LOCATION L0006131     VOLUME   485512.451 3754813.488 523.90
   LOCATION L0006132     VOLUME   485512.451 3754822.078 524.19
   LOCATION L0006133     VOLUME   485512.451 3754830.668 524.48
   LOCATION L0006134     VOLUME   485512.451 3754839.258 524.76
   LOCATION L0006135     VOLUME   485512.451 3754847.848 525.00
   LOCATION L0006136     VOLUME   485512.451 3754856.438 525.00
   LOCATION L0006137     VOLUME   485512.451 3754865.028 525.00
   LOCATION L0006138     VOLUME   485512.451 3754873.618 525.00
   LOCATION L0006139     VOLUME   485512.451 3754882.208 525.19
   LOCATION L0006140     VOLUME   485512.451 3754890.798 525.48
   LOCATION L0006141     VOLUME   485512.451 3754899.388 525.77
   LOCATION L0006142     VOLUME   485512.451 3754907.978 526.05
   LOCATION L0006143     VOLUME   485512.451 3754916.568 526.34
   LOCATION L0006144     VOLUME   485512.451 3754925.158 526.63
   LOCATION L0006145     VOLUME   485512.451 3754933.748 526.91
   LOCATION L0006146     VOLUME   485512.451 3754942.338 527.00
   LOCATION L0006147     VOLUME   485512.451 3754950.928 527.00
   LOCATION L0006148     VOLUME   485512.451 3754959.518 527.00
   LOCATION L0006149     VOLUME   485512.451 3754968.108 527.06
   LOCATION L0006150     VOLUME   485512.451 3754976.698 527.34
   LOCATION L0006151     VOLUME   485512.451 3754985.288 527.63
   LOCATION L0006152     VOLUME   485512.451 3754993.878 527.92
   LOCATION L0006153     VOLUME   485512.451 3755002.468 528.20
   LOCATION L0006154     VOLUME   485512.451 3755011.058 528.49
   LOCATION L0006155     VOLUME   485512.451 3755019.648 528.78
   LOCATION L0006156     VOLUME   485512.451 3755028.238 529.00
   LOCATION L0006157     VOLUME   485512.451 3755036.828 529.00
   LOCATION L0006158     VOLUME   485512.451 3755045.418 529.00
   LOCATION L0006159     VOLUME   485512.451 3755054.008 529.00
   LOCATION L0006160     VOLUME   485512.451 3755062.598 529.21
   LOCATION L0006161     VOLUME   485512.451 3755071.188 529.49
   LOCATION L0006162     VOLUME   485512.451 3755079.778 529.78
   LOCATION L0006163     VOLUME   485512.451 3755088.368 530.07
   LOCATION L0006164     VOLUME   485512.451 3755096.958 530.35
   LOCATION L0006165     VOLUME   485512.451 3755105.548 530.64
   LOCATION L0006166     VOLUME   485512.451 3755114.138 530.93
   LOCATION L0006167     VOLUME   485512.451 3755122.728 531.09
   LOCATION L0006168     VOLUME   485512.451 3755131.318 531.21
   LOCATION L0006169     VOLUME   485512.451 3755139.908 531.32
   LOCATION L0006170     VOLUME   485512.451 3755148.498 531.45
   LOCATION L0006171     VOLUME   485512.451 3755157.088 531.62
   LOCATION L0006172     VOLUME   485512.451 3755165.678 531.79
   LOCATION L0006173     VOLUME   485512.451 3755174.268 531.96
   LOCATION L0006174     VOLUME   485512.451 3755182.858 532.22
   LOCATION L0006175     VOLUME   485512.451 3755191.448 532.50
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
```

```
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC 10% Inbound SR-60
** PREFIX
** Length of Side = 8.59
** Configuration = Adjacent
** Emission Rate = 3.043E-06
** Vertical Dimension = 6.99
** SZINIT = 3.25
** Nodes = 2
** 485510.853, 3755203.704, 532.94, 3.49, 4.00
** 485516.446, 3755673.528, 544.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0006176     VOLUME   485510.904 3755207.999 533.11
   LOCATION L0006177     VOLUME   485511.006 3755216.588 533.68
   LOCATION L0006178     VOLUME   485511.108 3755225.177 534.25
   LOCATION L0006179     VOLUME   485511.210 3755233.767 534.83
   LOCATION L0006180     VOLUME   485511.313 3755242.356 535.20
   LOCATION L0006181     VOLUME   485511.415 3755250.946 535.49
   LOCATION L0006182     VOLUME   485511.517 3755259.535 535.77
   LOCATION L0006183     VOLUME   485511.619 3755268.124 536.00
   LOCATION L0006184     VOLUME   485511.722 3755276.714 536.00
   LOCATION L0006185     VOLUME   485511.824 3755285.303 536.00
   LOCATION L0006186     VOLUME   485511.926 3755293.893 536.00
   LOCATION L0006187     VOLUME   485512.029 3755302.482 536.00
   LOCATION L0006188     VOLUME   485512.131 3755311.071 536.00
   LOCATION L0006189     VOLUME   485512.233 3755319.661 536.00
   LOCATION L0006190     VOLUME   485512.335 3755328.250 536.03
   LOCATION L0006191     VOLUME   485512.438 3755336.839 536.14
   LOCATION L0006192     VOLUME   485512.540 3755345.429 536.26
   LOCATION L0006193     VOLUME   485512.642 3755354.018 536.39
   LOCATION L0006194     VOLUME   485512.744 3755362.608 536.54
   LOCATION L0006195     VOLUME   485512.847 3755371.197 536.71
   LOCATION L0006196     VOLUME   485512.949 3755379.786 536.87
   LOCATION L0006197     VOLUME   485513.051 3755388.376 537.07
   LOCATION L0006198     VOLUME   485513.153 3755396.965 537.35
   LOCATION L0006199     VOLUME   485513.256 3755405.555 537.64
   LOCATION L0006200     VOLUME   485513.358 3755414.144 537.93
   LOCATION L0006201     VOLUME   485513.460 3755422.733 538.12
   LOCATION L0006202     VOLUME   485513.562 3755431.323 538.27
   LOCATION L0006203     VOLUME   485513.665 3755439.912 538.43
   LOCATION L0006204     VOLUME   485513.767 3755448.502 538.58
   LOCATION L0006205     VOLUME   485513.869 3755457.091 538.71
   LOCATION L0006206     VOLUME   485513.971 3755465.680 538.84
   LOCATION L0006207     VOLUME   485514.074 3755474.270 538.97
   LOCATION L0006208     VOLUME   485514.176 3755482.859 539.22
   LOCATION L0006209     VOLUME   485514.278 3755491.449 539.50
   LOCATION L0006210     VOLUME   485514.380 3755500.038 539.79
   LOCATION L0006211     VOLUME   485514.483 3755508.627 540.08
   LOCATION L0006212     VOLUME   485514.585 3755517.217 540.36
```

```
   LOCATION L0006213     VOLUME   485514.687 3755525.806 540.65
   LOCATION L0006214     VOLUME   485514.789 3755534.395 540.93
   LOCATION L0006215     VOLUME   485514.892 3755542.985 541.00
   LOCATION L0006216     VOLUME   485514.994 3755551.574 541.00
   LOCATION L0006217     VOLUME   485515.096 3755560.164 541.00
   LOCATION L0006218     VOLUME   485515.198 3755568.753 541.08
   LOCATION L0006219     VOLUME   485515.301 3755577.342 541.37
   LOCATION L0006220     VOLUME   485515.403 3755585.932 541.65
   LOCATION L0006221     VOLUME   485515.505 3755594.521 541.94
   LOCATION L0006222     VOLUME   485515.607 3755603.111 542.23
   LOCATION L0006223     VOLUME   485515.710 3755611.700 542.51
   LOCATION L0006224     VOLUME   485515.812 3755620.289 542.80
   LOCATION L0006225     VOLUME   485515.914 3755628.879 543.08
   LOCATION L0006226     VOLUME   485516.016 3755637.468 543.37
   LOCATION L0006227     VOLUME   485516.119 3755646.058 543.66
   LOCATION L0006228     VOLUME   485516.221 3755654.647 543.94
   LOCATION L0006229     VOLUME   485516.323 3755663.236 544.00
   LOCATION L0006230     VOLUME   485516.425 3755671.826 544.00
** End of LINE VOLUME Source ID = SLINE7
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0005309     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005310     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005311     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005312     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005313     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005314     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005315     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005316     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005317     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005318     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005319     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005320     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005321     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005322     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005323     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005324     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005325     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005326     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005327     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005328     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005329     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005330     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005331     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005332     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005333     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005334     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005335     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005336     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005337     0.000001377      3.49      4.00      3.25
```

```
   SRCPARAM L0005338     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005339     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005340     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005341     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005342     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005343     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005344     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005345     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005346     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005347     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005348     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005349     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005350     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005351     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005352     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005353     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005354     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005355     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005356     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005357     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005358     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005359     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005360     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005361     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005362     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005363     0.000001377      3.49      4.00      3.25
   SRCPARAM L0005364     0.000001377      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0005365     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005366     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005367     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005368     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005369     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005370     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005371     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005372     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005373     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005374     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005375     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005376     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005377     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005378     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005379     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005380     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005381     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005382     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005383     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005384     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005385     0.000001186      3.49      4.00      3.25
```

```
   SRCPARAM L0005386     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005387     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005388     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005389     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005390     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005391     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005392     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005393     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005394     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005395     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005396     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005397     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005398     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005399     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005400     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005401     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005402     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005403     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005404     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005405     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005406     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005407     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005408     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005409     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005410     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005411     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005412     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005413     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005414     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005415     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005416     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005417     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005418     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005419     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005420     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005421     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005422     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005423     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005424     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005425     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005426     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005427     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005428     0.000001186      3.49      4.00      3.25
   SRCPARAM L0005429     0.000001186      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0005430     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005431     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005432     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005433     0.000002498      3.49      4.00      3.25
```

```
SRCPARAM L0005434     0.000002498      3.49      4.00      3.25
SRCPARAM L0005435     0.000002498      3.49      4.00      3.25
SRCPARAM L0005436     0.000002498      3.49      4.00      3.25
SRCPARAM L0005437     0.000002498      3.49      4.00      3.25
SRCPARAM L0005438     0.000002498      3.49      4.00      3.25
SRCPARAM L0005439     0.000002498      3.49      4.00      3.25
SRCPARAM L0005440     0.000002498      3.49      4.00      3.25
SRCPARAM L0005441     0.000002498      3.49      4.00      3.25
SRCPARAM L0005442     0.000002498      3.49      4.00      3.25
SRCPARAM L0005443     0.000002498      3.49      4.00      3.25
SRCPARAM L0005444     0.000002498      3.49      4.00      3.25
SRCPARAM L0005445     0.000002498      3.49      4.00      3.25
SRCPARAM L0005446     0.000002498      3.49      4.00      3.25
SRCPARAM L0005447     0.000002498      3.49      4.00      3.25
SRCPARAM L0005448     0.000002498      3.49      4.00      3.25
SRCPARAM L0005449     0.000002498      3.49      4.00      3.25
SRCPARAM L0005450     0.000002498      3.49      4.00      3.25
SRCPARAM L0005451     0.000002498      3.49      4.00      3.25
SRCPARAM L0005452     0.000002498      3.49      4.00      3.25
SRCPARAM L0005453     0.000002498      3.49      4.00      3.25
SRCPARAM L0005454     0.000002498      3.49      4.00      3.25
SRCPARAM L0005455     0.000002498      3.49      4.00      3.25
SRCPARAM L0005456     0.000002498      3.49      4.00      3.25
SRCPARAM L0005457     0.000002498      3.49      4.00      3.25
SRCPARAM L0005458     0.000002498      3.49      4.00      3.25
SRCPARAM L0005459     0.000002498      3.49      4.00      3.25
SRCPARAM L0005460     0.000002498      3.49      4.00      3.25
SRCPARAM L0005461     0.000002498      3.49      4.00      3.25
SRCPARAM L0005462     0.000002498      3.49      4.00      3.25
SRCPARAM L0005463     0.000002498      3.49      4.00      3.25
SRCPARAM L0005464     0.000002498      3.49      4.00      3.25
SRCPARAM L0005465     0.000002498      3.49      4.00      3.25
SRCPARAM L0005466     0.000002498      3.49      4.00      3.25
SRCPARAM L0005467     0.000002498      3.49      4.00      3.25
SRCPARAM L0005468     0.000002498      3.49      4.00      3.25
SRCPARAM L0005469     0.000002498      3.49      4.00      3.25
SRCPARAM L0005470     0.000002498      3.49      4.00      3.25
SRCPARAM L0005471     0.000002498      3.49      4.00      3.25
SRCPARAM L0005472     0.000002498      3.49      4.00      3.25
SRCPARAM L0005473     0.000002498      3.49      4.00      3.25
SRCPARAM L0005474     0.000002498      3.49      4.00      3.25
SRCPARAM L0005475     0.000002498      3.49      4.00      3.25
SRCPARAM L0005476     0.000002498      3.49      4.00      3.25
SRCPARAM L0005477     0.000002498      3.49      4.00      3.25
SRCPARAM L0005478     0.000002498      3.49      4.00      3.25
SRCPARAM L0005479     0.000002498      3.49      4.00      3.25
SRCPARAM L0005480     0.000002498      3.49      4.00      3.25
SRCPARAM L0005481     0.000002498      3.49      4.00      3.25
SRCPARAM L0005482     0.000002498      3.49      4.00      3.25
SRCPARAM L0005483     0.000002498      3.49      4.00      3.25
```

```
SRCPARAM L0005484     0.000002498      3.49      4.00      3.25
SRCPARAM L0005485     0.000002498      3.49      4.00      3.25
SRCPARAM L0005486     0.000002498      3.49      4.00      3.25
SRCPARAM L0005487     0.000002498      3.49      4.00      3.25
SRCPARAM L0005488     0.000002498      3.49      4.00      3.25
SRCPARAM L0005489     0.000002498      3.49      4.00      3.25
SRCPARAM L0005490     0.000002498      3.49      4.00      3.25
SRCPARAM L0005491     0.000002498      3.49      4.00      3.25
SRCPARAM L0005492     0.000002498      3.49      4.00      3.25
SRCPARAM L0005493     0.000002498      3.49      4.00      3.25
SRCPARAM L0005494     0.000002498      3.49      4.00      3.25
SRCPARAM L0005495     0.000002498      3.49      4.00      3.25
SRCPARAM L0005496     0.000002498      3.49      4.00      3.25
SRCPARAM L0005497     0.000002498      3.49      4.00      3.25
SRCPARAM L0005498     0.000002498      3.49      4.00      3.25
SRCPARAM L0005499     0.000002498      3.49      4.00      3.25
SRCPARAM L0005500     0.000002498      3.49      4.00      3.25
SRCPARAM L0005501     0.000002498      3.49      4.00      3.25
SRCPARAM L0005502     0.000002498      3.49      4.00      3.25
SRCPARAM L0005503     0.000002498      3.49      4.00      3.25
SRCPARAM L0005504     0.000002498      3.49      4.00      3.25
SRCPARAM L0005505     0.000002498      3.49      4.00      3.25
SRCPARAM L0005506     0.000002498      3.49      4.00      3.25
SRCPARAM L0005507     0.000002498      3.49      4.00      3.25
SRCPARAM L0005508     0.000002498      3.49      4.00      3.25
SRCPARAM L0005509     0.000002498      3.49      4.00      3.25
SRCPARAM L0005510     0.000002498      3.49      4.00      3.25
SRCPARAM L0005511     0.000002498      3.49      4.00      3.25
SRCPARAM L0005512     0.000002498      3.49      4.00      3.25
SRCPARAM L0005513     0.000002498      3.49      4.00      3.25
SRCPARAM L0005514     0.000002498      3.49      4.00      3.25
SRCPARAM L0005515     0.000002498      3.49      4.00      3.25
SRCPARAM L0005516     0.000002498      3.49      4.00      3.25
SRCPARAM L0005517     0.000002498      3.49      4.00      3.25
SRCPARAM L0005518     0.000002498      3.49      4.00      3.25
SRCPARAM L0005519     0.000002498      3.49      4.00      3.25
SRCPARAM L0005520     0.000002498      3.49      4.00      3.25
SRCPARAM L0005521     0.000002498      3.49      4.00      3.25
SRCPARAM L0005522     0.000002498      3.49      4.00      3.25
SRCPARAM L0005523     0.000002498      3.49      4.00      3.25
SRCPARAM L0005524     0.000002498      3.49      4.00      3.25
SRCPARAM L0005525     0.000002498      3.49      4.00      3.25
SRCPARAM L0005526     0.000002498      3.49      4.00      3.25
SRCPARAM L0005527     0.000002498      3.49      4.00      3.25
SRCPARAM L0005528     0.000002498      3.49      4.00      3.25
SRCPARAM L0005529     0.000002498      3.49      4.00      3.25
SRCPARAM L0005530     0.000002498      3.49      4.00      3.25
SRCPARAM L0005531     0.000002498      3.49      4.00      3.25
SRCPARAM L0005532     0.000002498      3.49      4.00      3.25
SRCPARAM L0005533     0.000002498      3.49      4.00      3.25
```

```
SRCPARAM L0005534     0.000002498      3.49      4.00      3.25
SRCPARAM L0005535     0.000002498      3.49      4.00      3.25
SRCPARAM L0005536     0.000002498      3.49      4.00      3.25
SRCPARAM L0005537     0.000002498      3.49      4.00      3.25
SRCPARAM L0005538     0.000002498      3.49      4.00      3.25
SRCPARAM L0005539     0.000002498      3.49      4.00      3.25
SRCPARAM L0005540     0.000002498      3.49      4.00      3.25
SRCPARAM L0005541     0.000002498      3.49      4.00      3.25
SRCPARAM L0005542     0.000002498      3.49      4.00      3.25
SRCPARAM L0005543     0.000002498      3.49      4.00      3.25
SRCPARAM L0005544     0.000002498      3.49      4.00      3.25
SRCPARAM L0005545     0.000002498      3.49      4.00      3.25
SRCPARAM L0005546     0.000002498      3.49      4.00      3.25
SRCPARAM L0005547     0.000002498      3.49      4.00      3.25
SRCPARAM L0005548     0.000002498      3.49      4.00      3.25
SRCPARAM L0005549     0.000002498      3.49      4.00      3.25
SRCPARAM L0005550     0.000002498      3.49      4.00      3.25
SRCPARAM L0005551     0.000002498      3.49      4.00      3.25
SRCPARAM L0005552     0.000002498      3.49      4.00      3.25
SRCPARAM L0005553     0.000002498      3.49      4.00      3.25
SRCPARAM L0005554     0.000002498      3.49      4.00      3.25
SRCPARAM L0005555     0.000002498      3.49      4.00      3.25
SRCPARAM L0005556     0.000002498      3.49      4.00      3.25
SRCPARAM L0005557     0.000002498      3.49      4.00      3.25
SRCPARAM L0005558     0.000002498      3.49      4.00      3.25
SRCPARAM L0005559     0.000002498      3.49      4.00      3.25
SRCPARAM L0005560     0.000002498      3.49      4.00      3.25
SRCPARAM L0005561     0.000002498      3.49      4.00      3.25
SRCPARAM L0005562     0.000002498      3.49      4.00      3.25
SRCPARAM L0005563     0.000002498      3.49      4.00      3.25
SRCPARAM L0005564     0.000002498      3.49      4.00      3.25
SRCPARAM L0005565     0.000002498      3.49      4.00      3.25
SRCPARAM L0005566     0.000002498      3.49      4.00      3.25
SRCPARAM L0005567     0.000002498      3.49      4.00      3.25
SRCPARAM L0005568     0.000002498      3.49      4.00      3.25
SRCPARAM L0005569     0.000002498      3.49      4.00      3.25
SRCPARAM L0005570     0.000002498      3.49      4.00      3.25
SRCPARAM L0005571     0.000002498      3.49      4.00      3.25
SRCPARAM L0005572     0.000002498      3.49      4.00      3.25
SRCPARAM L0005573     0.000002498      3.49      4.00      3.25
SRCPARAM L0005574     0.000002498      3.49      4.00      3.25
SRCPARAM L0005575     0.000002498      3.49      4.00      3.25
SRCPARAM L0005576     0.000002498      3.49      4.00      3.25
SRCPARAM L0005577     0.000002498      3.49      4.00      3.25
SRCPARAM L0005578     0.000002498      3.49      4.00      3.25
SRCPARAM L0005579     0.000002498      3.49      4.00      3.25
SRCPARAM L0005580     0.000002498      3.49      4.00      3.25
SRCPARAM L0005581     0.000002498      3.49      4.00      3.25
SRCPARAM L0005582     0.000002498      3.49      4.00      3.25
SRCPARAM L0005583     0.000002498      3.49      4.00      3.25
```

```
SRCPARAM L0005584     0.000002498      3.49      4.00      3.25
SRCPARAM L0005585     0.000002498      3.49      4.00      3.25
SRCPARAM L0005586     0.000002498      3.49      4.00      3.25
SRCPARAM L0005587     0.000002498      3.49      4.00      3.25
SRCPARAM L0005588     0.000002498      3.49      4.00      3.25
SRCPARAM L0005589     0.000002498      3.49      4.00      3.25
SRCPARAM L0005590     0.000002498      3.49      4.00      3.25
SRCPARAM L0005591     0.000002498      3.49      4.00      3.25
SRCPARAM L0005592     0.000002498      3.49      4.00      3.25
SRCPARAM L0005593     0.000002498      3.49      4.00      3.25
SRCPARAM L0005594     0.000002498      3.49      4.00      3.25
SRCPARAM L0005595     0.000002498      3.49      4.00      3.25
SRCPARAM L0005596     0.000002498      3.49      4.00      3.25
SRCPARAM L0005597     0.000002498      3.49      4.00      3.25
SRCPARAM L0005598     0.000002498      3.49      4.00      3.25
SRCPARAM L0005599     0.000002498      3.49      4.00      3.25
SRCPARAM L0005600     0.000002498      3.49      4.00      3.25
SRCPARAM L0005601     0.000002498      3.49      4.00      3.25
SRCPARAM L0005602     0.000002498      3.49      4.00      3.25
SRCPARAM L0005603     0.000002498      3.49      4.00      3.25
SRCPARAM L0005604     0.000002498      3.49      4.00      3.25
SRCPARAM L0005605     0.000002498      3.49      4.00      3.25
SRCPARAM L0005606     0.000002498      3.49      4.00      3.25
SRCPARAM L0005607     0.000002498      3.49      4.00      3.25
SRCPARAM L0005608     0.000002498      3.49      4.00      3.25
SRCPARAM L0005609     0.000002498      3.49      4.00      3.25
SRCPARAM L0005610     0.000002498      3.49      4.00      3.25
SRCPARAM L0005611     0.000002498      3.49      4.00      3.25
SRCPARAM L0005612     0.000002498      3.49      4.00      3.25
SRCPARAM L0005613     0.000002498      3.49      4.00      3.25
SRCPARAM L0005614     0.000002498      3.49      4.00      3.25
SRCPARAM L0005615     0.000002498      3.49      4.00      3.25
SRCPARAM L0005616     0.000002498      3.49      4.00      3.25
SRCPARAM L0005617     0.000002498      3.49      4.00      3.25
SRCPARAM L0005618     0.000002498      3.49      4.00      3.25
SRCPARAM L0005619     0.000002498      3.49      4.00      3.25
SRCPARAM L0005620     0.000002498      3.49      4.00      3.25
SRCPARAM L0005621     0.000002498      3.49      4.00      3.25
SRCPARAM L0005622     0.000002498      3.49      4.00      3.25
SRCPARAM L0005623     0.000002498      3.49      4.00      3.25
SRCPARAM L0005624     0.000002498      3.49      4.00      3.25
SRCPARAM L0005625     0.000002498      3.49      4.00      3.25
SRCPARAM L0005626     0.000002498      3.49      4.00      3.25
SRCPARAM L0005627     0.000002498      3.49      4.00      3.25
SRCPARAM L0005628     0.000002498      3.49      4.00      3.25
SRCPARAM L0005629     0.000002498      3.49      4.00      3.25
SRCPARAM L0005630     0.000002498      3.49      4.00      3.25
SRCPARAM L0005631     0.000002498      3.49      4.00      3.25
SRCPARAM L0005632     0.000002498      3.49      4.00      3.25
SRCPARAM L0005633     0.000002498      3.49      4.00      3.25
```

```
   SRCPARAM L0005634     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005635     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005636     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005637     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005638     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005639     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005640     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005641     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005642     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005643     0.000002498      3.49      4.00      3.25
   SRCPARAM L0005644     0.000002498      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0005645     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005646     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005647     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005648     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005649     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005650     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005651     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005652     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005653     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005654     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005655     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005656     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005657     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005658     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005659     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005660     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005661     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005662     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005663     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005664     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005665     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005666     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005667     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005668     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005669     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005670     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005671     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005672     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005673     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005674     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005675     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005676     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005677     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005678     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005679     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005680     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005681     0.000000448      3.49      4.00      3.25
```

```
SRCPARAM L0005682     0.000000448      3.49      4.00      3.25
SRCPARAM L0005683     0.000000448      3.49      4.00      3.25
SRCPARAM L0005684     0.000000448      3.49      4.00      3.25
SRCPARAM L0005685     0.000000448      3.49      4.00      3.25
SRCPARAM L0005686     0.000000448      3.49      4.00      3.25
SRCPARAM L0005687     0.000000448      3.49      4.00      3.25
SRCPARAM L0005688     0.000000448      3.49      4.00      3.25
SRCPARAM L0005689     0.000000448      3.49      4.00      3.25
SRCPARAM L0005690     0.000000448      3.49      4.00      3.25
SRCPARAM L0005691     0.000000448      3.49      4.00      3.25
SRCPARAM L0005692     0.000000448      3.49      4.00      3.25
SRCPARAM L0005693     0.000000448      3.49      4.00      3.25
SRCPARAM L0005694     0.000000448      3.49      4.00      3.25
SRCPARAM L0005695     0.000000448      3.49      4.00      3.25
SRCPARAM L0005696     0.000000448      3.49      4.00      3.25
SRCPARAM L0005697     0.000000448      3.49      4.00      3.25
SRCPARAM L0005698     0.000000448      3.49      4.00      3.25
SRCPARAM L0005699     0.000000448      3.49      4.00      3.25
SRCPARAM L0005700     0.000000448      3.49      4.00      3.25
SRCPARAM L0005701     0.000000448      3.49      4.00      3.25
SRCPARAM L0005702     0.000000448      3.49      4.00      3.25
SRCPARAM L0005703     0.000000448      3.49      4.00      3.25
SRCPARAM L0005704     0.000000448      3.49      4.00      3.25
SRCPARAM L0005705     0.000000448      3.49      4.00      3.25
SRCPARAM L0005706     0.000000448      3.49      4.00      3.25
SRCPARAM L0005707     0.000000448      3.49      4.00      3.25
SRCPARAM L0005708     0.000000448      3.49      4.00      3.25
SRCPARAM L0005709     0.000000448      3.49      4.00      3.25
SRCPARAM L0005710     0.000000448      3.49      4.00      3.25
SRCPARAM L0005711     0.000000448      3.49      4.00      3.25
SRCPARAM L0005712     0.000000448      3.49      4.00      3.25
SRCPARAM L0005713     0.000000448      3.49      4.00      3.25
SRCPARAM L0005714     0.000000448      3.49      4.00      3.25
SRCPARAM L0005715     0.000000448      3.49      4.00      3.25
SRCPARAM L0005716     0.000000448      3.49      4.00      3.25
SRCPARAM L0005717     0.000000448      3.49      4.00      3.25
SRCPARAM L0005718     0.000000448      3.49      4.00      3.25
SRCPARAM L0005719     0.000000448      3.49      4.00      3.25
SRCPARAM L0005720     0.000000448      3.49      4.00      3.25
SRCPARAM L0005721     0.000000448      3.49      4.00      3.25
SRCPARAM L0005722     0.000000448      3.49      4.00      3.25
SRCPARAM L0005723     0.000000448      3.49      4.00      3.25
SRCPARAM L0005724     0.000000448      3.49      4.00      3.25
SRCPARAM L0005725     0.000000448      3.49      4.00      3.25
SRCPARAM L0005726     0.000000448      3.49      4.00      3.25
SRCPARAM L0005727     0.000000448      3.49      4.00      3.25
SRCPARAM L0005728     0.000000448      3.49      4.00      3.25
SRCPARAM L0005729     0.000000448      3.49      4.00      3.25
SRCPARAM L0005730     0.000000448      3.49      4.00      3.25
SRCPARAM L0005731     0.000000448      3.49      4.00      3.25
```

```
SRCPARAM L0005732     0.000000448      3.49      4.00      3.25
SRCPARAM L0005733     0.000000448      3.49      4.00      3.25
SRCPARAM L0005734     0.000000448      3.49      4.00      3.25
SRCPARAM L0005735     0.000000448      3.49      4.00      3.25
SRCPARAM L0005736     0.000000448      3.49      4.00      3.25
SRCPARAM L0005737     0.000000448      3.49      4.00      3.25
SRCPARAM L0005738     0.000000448      3.49      4.00      3.25
SRCPARAM L0005739     0.000000448      3.49      4.00      3.25
SRCPARAM L0005740     0.000000448      3.49      4.00      3.25
SRCPARAM L0005741     0.000000448      3.49      4.00      3.25
SRCPARAM L0005742     0.000000448      3.49      4.00      3.25
SRCPARAM L0005743     0.000000448      3.49      4.00      3.25
SRCPARAM L0005744     0.000000448      3.49      4.00      3.25
SRCPARAM L0005745     0.000000448      3.49      4.00      3.25
SRCPARAM L0005746     0.000000448      3.49      4.00      3.25
SRCPARAM L0005747     0.000000448      3.49      4.00      3.25
SRCPARAM L0005748     0.000000448      3.49      4.00      3.25
SRCPARAM L0005749     0.000000448      3.49      4.00      3.25
SRCPARAM L0005750     0.000000448      3.49      4.00      3.25
SRCPARAM L0005751     0.000000448      3.49      4.00      3.25
SRCPARAM L0005752     0.000000448      3.49      4.00      3.25
SRCPARAM L0005753     0.000000448      3.49      4.00      3.25
SRCPARAM L0005754     0.000000448      3.49      4.00      3.25
SRCPARAM L0005755     0.000000448      3.49      4.00      3.25
SRCPARAM L0005756     0.000000448      3.49      4.00      3.25
SRCPARAM L0005757     0.000000448      3.49      4.00      3.25
SRCPARAM L0005758     0.000000448      3.49      4.00      3.25
SRCPARAM L0005759     0.000000448      3.49      4.00      3.25
SRCPARAM L0005760     0.000000448      3.49      4.00      3.25
SRCPARAM L0005761     0.000000448      3.49      4.00      3.25
SRCPARAM L0005762     0.000000448      3.49      4.00      3.25
SRCPARAM L0005763     0.000000448      3.49      4.00      3.25
SRCPARAM L0005764     0.000000448      3.49      4.00      3.25
SRCPARAM L0005765     0.000000448      3.49      4.00      3.25
SRCPARAM L0005766     0.000000448      3.49      4.00      3.25
SRCPARAM L0005767     0.000000448      3.49      4.00      3.25
SRCPARAM L0005768     0.000000448      3.49      4.00      3.25
SRCPARAM L0005769     0.000000448      3.49      4.00      3.25
SRCPARAM L0005770     0.000000448      3.49      4.00      3.25
SRCPARAM L0005771     0.000000448      3.49      4.00      3.25
SRCPARAM L0005772     0.000000448      3.49      4.00      3.25
SRCPARAM L0005773     0.000000448      3.49      4.00      3.25
SRCPARAM L0005774     0.000000448      3.49      4.00      3.25
SRCPARAM L0005775     0.000000448      3.49      4.00      3.25
SRCPARAM L0005776     0.000000448      3.49      4.00      3.25
SRCPARAM L0005777     0.000000448      3.49      4.00      3.25
SRCPARAM L0005778     0.000000448      3.49      4.00      3.25
SRCPARAM L0005779     0.000000448      3.49      4.00      3.25
SRCPARAM L0005780     0.000000448      3.49      4.00      3.25
SRCPARAM L0005781     0.000000448      3.49      4.00      3.25
```

```
   SRCPARAM L0005782     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005783     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005784     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005785     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005786     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005787     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005788     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005789     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005790     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005791     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005792     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005793     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005794     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005795     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005796     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005797     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005798     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005799     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005800     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005801     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005802     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005803     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005804     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005805     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005806     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005807     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005808     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005809     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005810     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005811     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005812     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005813     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005814     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005815     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005816     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005817     0.000000448      3.49      4.00      3.25
   SRCPARAM L0005818     0.000000448      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0005819     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005820     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005821     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005822     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005823     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005824     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005825     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005826     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005827     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005828     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005829     0.0000001682      3.49      4.00      3.25
```

```
SRCPARAM L0005830     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005831     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005832     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005833     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005834     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005835     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005836     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005837     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005838     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005839     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005840     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005841     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005842     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005843     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005844     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005845     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005846     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005847     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005848     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005849     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005850     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005851     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005852     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005853     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005854     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005855     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005856     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005857     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005858     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005859     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005860     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005861     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005862     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005863     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005864     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005865     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005866     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005867     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005868     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005869     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005870     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005871     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005872     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005873     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005874     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005875     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005876     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005877     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005878     0.0000001682      3.49      4.00      3.25
SRCPARAM L0005879     0.0000001682      3.49      4.00      3.25
```

```
   SRCPARAM L0005880     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005881     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005882     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005883     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005884     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005885     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005886     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005887     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005888     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005889     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005890     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005891     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005892     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005893     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005894     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005895     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005896     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005897     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005898     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005899     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005900     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005901     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005902     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005903     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005904     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005905     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005906     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005907     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005908     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005909     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005910     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005911     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005912     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005913     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005914     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005915     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005916     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005917     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005918     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005919     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005920     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005921     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005922     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005923     0.0000001682      3.49      4.00      3.25
   SRCPARAM L0005924     0.0000001682      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0005925     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0005926     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0005927     0.0000002807      3.49      4.00      3.25
```

```
SRCPARAM L0005928     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005929     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005930     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005931     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005932     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005933     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005934     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005935     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005936     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005937     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005938     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005939     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005940     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005941     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005942     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005943     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005944     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005945     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005946     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005947     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005948     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005949     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005950     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005951     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005952     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005953     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005954     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005955     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005956     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005957     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005958     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005959     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005960     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005961     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005962     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005963     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005964     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005965     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005966     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005967     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005968     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005969     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005970     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005971     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005972     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005973     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005974     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005975     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005976     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005977     0.0000002807      3.49      4.00      3.25
```

```
SRCPARAM L0005978     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005979     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005980     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005981     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005982     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005983     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005984     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005985     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005986     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005987     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005988     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005989     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005990     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005991     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005992     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005993     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005994     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005995     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005996     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005997     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005998     0.0000002807      3.49      4.00      3.25
SRCPARAM L0005999     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006000     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006001     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006002     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006003     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006004     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006005     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006006     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006007     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006008     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006009     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006010     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006011     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006012     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006013     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006014     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006015     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006016     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006017     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006018     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006019     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006020     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006021     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006022     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006023     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006024     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006025     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006026     0.0000002807      3.49      4.00      3.25
SRCPARAM L0006027     0.0000002807      3.49      4.00      3.25
```

```
   SRCPARAM L0006028     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0006029     0.0000002807      3.49      4.00      3.25
   SRCPARAM L0006030     0.0000002807      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0006031     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006032     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006033     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006034     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006035     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006036     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006037     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006038     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006039     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006040     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006041     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006042     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006043     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006044     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006045     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006046     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006047     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006048     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006049     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006050     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006051     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006052     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006053     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006054     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006055     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006056     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006057     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006058     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006059     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006060     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006061     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006062     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006063     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006064     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006065     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006066     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006067     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006068     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006069     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006070     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006071     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006072     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006073     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006074     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006075     0.0000000557      3.49      4.00      3.25
```

```
   SRCPARAM L0006076     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006077     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006078     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006079     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006080     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006081     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006082     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006083     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006084     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006085     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006086     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006087     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006088     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006089     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006090     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006091     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006092     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006093     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006094     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006095     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006096     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006097     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006098     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006099     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006100     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006101     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006102     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006103     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006104     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006105     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006106     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006107     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006108     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006109     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006110     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006111     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006112     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006113     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006114     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006115     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006116     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006117     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006118     0.0000000557      3.49      4.00      3.25
   SRCPARAM L0006119     0.0000000557      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0006120     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006121     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006122     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006123     0.0000001666      3.49      4.00      3.25
```

```
SRCPARAM L0006124     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006125     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006126     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006127     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006128     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006129     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006130     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006131     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006132     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006133     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006134     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006135     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006136     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006137     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006138     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006139     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006140     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006141     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006142     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006143     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006144     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006145     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006146     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006147     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006148     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006149     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006150     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006151     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006152     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006153     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006154     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006155     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006156     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006157     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006158     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006159     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006160     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006161     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006162     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006163     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006164     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006165     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006166     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006167     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006168     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006169     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006170     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006171     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006172     0.0000001666      3.49      4.00      3.25
SRCPARAM L0006173     0.0000001666      3.49      4.00      3.25
```

```
   SRCPARAM L0006174     0.0000001666      3.49      4.00      3.25
   SRCPARAM L0006175     0.0000001666      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0006176     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006177     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006178     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006179     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006180     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006181     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006182     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006183     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006184     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006185     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006186     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006187     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006188     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006189     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006190     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006191     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006192     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006193     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006194     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006195     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006196     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006197     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006198     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006199     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006200     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006201     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006202     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006203     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006204     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006205     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006206     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006207     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006208     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006209     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006210     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006211     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006212     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006213     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006214     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006215     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006216     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006217     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006218     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006219     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006220     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006221     0.00000005533      3.49      4.00      3.25
```

```
   SRCPARAM L0006222     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006223     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006224     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006225     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006226     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006227     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006228     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006229     0.00000005533      3.49      4.00      3.25
   SRCPARAM L0006230     0.00000005533      3.49      4.00      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED "12974 HCW.rou"
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
   PROFFILE PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
** Auto-Generated Plotfiles
   PLOTFILE ANNUAL ALL "12974 HCW.AD\AN00GALL.PLT" 31
   SUMMFILE "12974 HCW.sum"
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
 --------- Summary of Total Messages --------

A Total of           0 Fatal Error Message(s)
A Total of           2 Warning Message(s)
A Total of           0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    2086       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187    2086       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


**********************************
*** SETUP Finishes Successfully ***
**********************************

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                            ***     MODEL SETUP OPTIONS SUMMARY
  ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   922 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    922 Source(s);       1 Source Group(s); and      19
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    922 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.9 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 12974 HCW.err

**File for Summary of Results: 12974 HCW.sum

*** AERMOD - VERSION 21112 *** *** C:\Lakes\AERMOD View\12974 HCW\12974 HCW.isc *** 04/25/22
*** AERMET - VERSION 16216 *** *** *** 11:18:08

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0005309	0	0.13770E-05	484874.7	3754955.2	531.6	3.49	4.00	3.25	YES	
L0005310	0	0.13770E-05	484883.3	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005311	0	0.13770E-05	484891.9	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005312	0	0.13770E-05	484900.4	3754955.3	531.6	3.49	4.00	3.25	YES	
L0005313	0	0.13770E-05	484909.0	3754955.4	531.6	3.49	4.00	3.25	YES	
L0005314	0	0.13770E-05	484917.6	3754955.4	531.6	3.49	4.00	3.25	YES	
L0005315	0	0.13770E-05	484926.2	3754955.5	531.6	3.49	4.00	3.25	YES	
L0005316	0	0.13770E-05	484934.8	3754955.5	531.6	3.49	4.00	3.25	YES	
L0005317	0	0.13770E-05	484943.4	3754955.5	531.6	3.49	4.00			

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005318	0	0.13770E-05	484952.0	3754955.6	531.6	3.49	4.00
3.25 YES							
L0005319	0	0.13770E-05	484960.6	3754955.6	531.6	3.49	4.00
3.25 YES							
L0005320	0	0.13770E-05	484969.2	3754955.7	531.3	3.49	4.00
3.25 YES							
L0005321	0	0.13770E-05	484977.8	3754955.7	531.1	3.49	4.00
3.25 YES							
L0005322	0	0.13770E-05	484986.3	3754955.8	530.8	3.49	4.00
3.25 YES							
L0005323	0	0.13770E-05	484994.9	3754955.8	530.6	3.49	4.00
3.25 YES							
L0005324	0	0.13770E-05	485003.5	3754955.8	530.6	3.49	4.00
3.25 YES							
L0005325	0	0.13770E-05	485012.1	3754955.9	530.6	3.49	4.00
3.25 YES							
L0005326	0	0.13770E-05	485020.7	3754955.9	530.6	3.49	4.00
3.25 YES							
L0005327	0	0.13770E-05	485029.3	3754956.0	530.6	3.49	4.00
3.25 YES							
L0005328	0	0.13770E-05	485037.9	3754956.0	530.6	3.49	4.00
3.25 YES							
L0005329	0	0.13770E-05	485046.5	3754956.0	530.7	3.49	4.00
3.25 YES							
L0005330	0	0.13770E-05	485055.1	3754956.1	530.7	3.49	4.00
3.25 YES							
L0005331	0	0.13770E-05	485063.7	3754956.1	530.7	3.49	4.00
3.25 YES							
L0005332	0	0.13770E-05	485072.2	3754956.2	530.7	3.49	4.00
3.25 YES							
L0005333	0	0.13770E-05	485080.8	3754956.2	530.6	3.49	4.00
3.25 YES							
L0005334	0	0.13770E-05	485089.4	3754956.3	530.5	3.49	4.00
3.25 YES							
L0005335	0	0.13770E-05	485098.0	3754956.3	530.3	3.49	4.00
3.25 YES							
L0005336	0	0.13770E-05	485106.6	3754956.3	530.1	3.49	4.00
3.25 YES							
L0005337	0	0.13770E-05	485115.2	3754956.4	529.9	3.49	4.00
3.25 YES							
L0005338	0	0.13770E-05	485123.8	3754956.4	529.8	3.49	4.00
3.25 YES							
L0005339	0	0.13770E-05	485132.4	3754956.5	529.8	3.49	4.00
3.25 YES							
L0005340	0	0.13770E-05	485141.0	3754956.5	529.7	3.49	4.00
3.25 YES							
L0005341	0	0.13770E-05	485149.6	3754956.5	529.7	3.49	4.00
3.25 YES							
L0005342	0	0.13770E-05	485158.1	3754956.6	529.7	3.49	4.00

```
3.25     YES
 L0005343         0   0.13770E-05  485166.7 3754956.6   529.7     3.49     4.00
3.25     YES
 L0005344         0   0.13770E-05  485175.3 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005345         0   0.13770E-05  485183.9 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005346         0   0.13770E-05  485192.5 3754956.7   529.7     3.49     4.00
3.25     YES
 L0005347         0   0.13770E-05  485201.1 3754956.8   529.7     3.49     4.00
3.25     YES
 L0005348         0   0.13770E-05  485209.7 3754956.8   529.5     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005349         0   0.13770E-05  485218.3 3754956.9   529.3     3.49     4.00
3.25     YES
 L0005350         0   0.13770E-05  485226.9 3754956.9   529.1     3.49     4.00
3.25     YES
 L0005351         0   0.13770E-05  485235.5 3754957.0   528.9     3.49     4.00
3.25     YES
 L0005352         0   0.13770E-05  485244.0 3754957.0   528.8     3.49     4.00
3.25     YES
 L0005353         0   0.13770E-05  485252.6 3754957.0   528.8     3.49     4.00
3.25     YES
 L0005354         0   0.13770E-05  485261.2 3754957.1   528.7     3.49     4.00
3.25     YES
 L0005355         0   0.13770E-05  485269.8 3754957.1   528.7     3.49     4.00
3.25     YES
 L0005356         0   0.13770E-05  485278.4 3754957.2   528.7     3.49     4.00
3.25     YES
 L0005357         0   0.13770E-05  485287.0 3754957.2   528.7     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005358	0	0.13770E-05	485295.6	3754957.2	528.6	3.49	4.00
3.25 YES							
L0005359	0	0.13770E-05	485304.2	3754957.3	528.4	3.49	4.00
3.25 YES							
L0005360	0	0.13770E-05	485312.8	3754957.3	528.2	3.49	4.00
3.25 YES							
L0005361	0	0.13770E-05	485321.4	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005362	0	0.13770E-05	485329.9	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005363	0	0.13770E-05	485338.5	3754957.4	528.0	3.49	4.00
3.25 YES							
L0005364	0	0.13770E-05	485347.1	3754957.5	528.0	3.49	4.00
3.25 YES							
L0005365	0	0.11860E-05	484820.0	3754728.7	526.1	3.49	4.00
3.25 YES							
L0005366	0	0.11860E-05	484828.6	3754728.7	526.1	3.49	4.00
3.25 YES							
L0005367	0	0.11860E-05	484837.2	3754728.8	526.1	3.49	4.00
3.25 YES							
L0005368	0	0.11860E-05	484845.7	3754728.8	526.1	3.49	4.00
3.25 YES							
L0005369	0	0.11860E-05	484854.3	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005370	0	0.11860E-05	484862.9	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005371	0	0.11860E-05	484871.5	3754728.9	526.1	3.49	4.00
3.25 YES							
L0005372	0	0.11860E-05	484880.1	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005373	0	0.11860E-05	484888.7	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005374	0	0.11860E-05	484897.3	3754729.0	526.1	3.49	4.00
3.25 YES							
L0005375	0	0.11860E-05	484905.9	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005376	0	0.11860E-05	484914.5	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005377	0	0.11860E-05	484923.1	3754729.1	526.1	3.49	4.00
3.25 YES							
L0005378	0	0.11860E-05	484931.6	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005379	0	0.11860E-05	484940.2	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005380	0	0.11860E-05	484948.8	3754729.2	526.1	3.49	4.00
3.25 YES							
L0005381	0	0.11860E-05	484957.4	3754729.3	526.1	3.49	4.00
3.25 YES							
L0005382	0	0.11860E-05	484966.0	3754729.3	526.1	3.49	4.00

```
3.25     YES
 L0005383         0   0.11860E-05  484974.6 3754729.4   526.0     3.49     4.00
3.25     YES
 L0005384         0   0.11860E-05  484983.2 3754729.4   526.0     3.49     4.00
3.25     YES
 L0005385         0   0.11860E-05  484991.8 3754729.4   525.9     3.49     4.00
3.25     YES
 L0005386         0   0.11860E-05  485000.4 3754729.5   525.7     3.49     4.00
3.25     YES
 L0005387         0   0.11860E-05  485009.0 3754729.5   525.4     3.49     4.00
3.25     YES
 L0005388         0   0.11860E-05  485017.5 3754729.5   525.2     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005389         0   0.11860E-05  485026.1 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005390         0   0.11860E-05  485034.7 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005391         0   0.11860E-05  485043.3 3754729.6   525.1     3.49     4.00
3.25     YES
 L0005392         0   0.11860E-05  485051.9 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005393         0   0.11860E-05  485060.5 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005394         0   0.11860E-05  485069.1 3754729.7   525.1     3.49     4.00
3.25     YES
 L0005395         0   0.11860E-05  485077.7 3754729.8   525.1     3.49     4.00
3.25     YES
 L0005396         0   0.11860E-05  485086.3 3754729.8   525.1     3.49     4.00
3.25     YES
 L0005397         0   0.11860E-05  485094.9 3754729.9   525.1     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005398	0	0.11860E-05	485103.4	3754729.9	525.1	3.49	4.00
3.25 YES							
L0005399	0	0.11860E-05	485112.0	3754729.9	525.1	3.49	4.00
3.25 YES							
L0005400	0	0.11860E-05	485120.6	3754730.0	525.1	3.49	4.00
3.25 YES							
L0005401	0	0.11860E-05	485129.2	3754730.0	525.0	3.49	4.00
3.25 YES							
L0005402	0	0.11860E-05	485137.8	3754730.0	525.0	3.49	4.00
3.25 YES							
L0005403	0	0.11860E-05	485146.4	3754730.1	524.8	3.49	4.00
3.25 YES							
L0005404	0	0.11860E-05	485155.0	3754730.1	524.6	3.49	4.00
3.25 YES							
L0005405	0	0.11860E-05	485163.6	3754730.1	524.3	3.49	4.00
3.25 YES							
L0005406	0	0.11860E-05	485172.2	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005407	0	0.11860E-05	485180.8	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005408	0	0.11860E-05	485189.3	3754730.2	524.1	3.49	4.00
3.25 YES							
L0005409	0	0.11860E-05	485197.9	3754730.3	524.1	3.49	4.00
3.25 YES							
L0005410	0	0.11860E-05	485206.5	3754730.3	524.1	3.49	4.00
3.25 YES							
L0005411	0	0.11860E-05	485215.1	3754730.4	524.1	3.49	4.00
3.25 YES							
L0005412	0	0.11860E-05	485223.7	3754730.4	524.0	3.49	4.00
3.25 YES							
L0005413	0	0.11860E-05	485232.3	3754730.4	523.9	3.49	4.00
3.25 YES							
L0005414	0	0.11860E-05	485240.9	3754730.5	523.7	3.49	4.00
3.25 YES							
L0005415	0	0.11860E-05	485249.5	3754730.5	523.4	3.49	4.00
3.25 YES							
L0005416	0	0.11860E-05	485258.1	3754730.5	523.2	3.49	4.00
3.25 YES							
L0005417	0	0.11860E-05	485266.7	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005418	0	0.11860E-05	485275.2	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005419	0	0.11860E-05	485283.8	3754730.6	523.1	3.49	4.00
3.25 YES							
L0005420	0	0.11860E-05	485292.4	3754730.7	523.1	3.49	4.00
3.25 YES							
L0005421	0	0.11860E-05	485301.0	3754730.7	523.1	3.49	4.00
3.25 YES							
L0005422	0	0.11860E-05	485309.6	3754730.7	523.1	3.49	4.00

```
3.25     YES
 L0005423         0   0.11860E-05  485318.2 3754730.8   523.1     3.49     4.00
3.25     YES
 L0005424         0   0.11860E-05  485326.8 3754730.8   523.1     3.49     4.00
3.25     YES
 L0005425         0   0.11860E-05  485335.4 3754730.9   523.1     3.49     4.00
3.25     YES
 L0005426         0   0.11860E-05  485344.0 3754730.9   523.0     3.49     4.00
3.25     YES
 L0005427         0   0.11860E-05  485352.6 3754730.9   523.0     3.49     4.00
3.25     YES
 L0005428         0   0.11860E-05  485361.1 3754731.0   523.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005429         0   0.11860E-05  485369.7 3754731.0   523.0     3.49     4.00
3.25     YES
 L0005430         0   0.24980E-05  484771.6 3754988.8   533.0     3.49     4.00
3.25     YES
 L0005431         0   0.24980E-05  484769.7 3754980.4   533.0     3.49     4.00
3.25     YES
 L0005432         0   0.24980E-05  484767.8 3754972.0   533.0     3.49     4.00
3.25     YES
 L0005433         0   0.24980E-05  484765.9 3754963.6   532.9     3.49     4.00
3.25     YES
 L0005434         0   0.24980E-05  484763.9 3754955.3   532.6     3.49     4.00
3.25     YES
 L0005435         0   0.24980E-05  484761.5 3754947.1   532.4     3.49     4.00
3.25     YES
 L0005436         0   0.24980E-05  484757.5 3754939.5   532.1     3.49     4.00
3.25     YES
 L0005437         0   0.24980E-05  484753.6 3754931.8   531.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005438	0	0.24980E-05	484751.8	3754923.5	531.6	3.49	4.00
3.25 YES							
L0005439	0	0.24980E-05	484750.2	3754915.0	531.3	3.49	4.00
3.25 YES							
L0005440	0	0.24980E-05	484748.6	3754906.6	531.0	3.49	4.00
3.25 YES							
L0005441	0	0.24980E-05	484747.1	3754898.1	530.7	3.49	4.00
3.25 YES							
L0005442	0	0.24980E-05	484747.1	3754889.6	530.4	3.49	4.00
3.25 YES							
L0005443	0	0.24980E-05	484747.1	3754881.0	530.1	3.49	4.00
3.25 YES							
L0005444	0	0.24980E-05	484747.1	3754872.4	530.0	3.49	4.00
3.25 YES							
L0005445	0	0.24980E-05	484747.1	3754863.8	530.0	3.49	4.00
3.25 YES							
L0005446	0	0.24980E-05	484747.1	3754855.2	529.9	3.49	4.00
3.25 YES							
L0005447	0	0.24980E-05	484747.1	3754846.6	529.9	3.49	4.00
3.25 YES							
L0005448	0	0.24980E-05	484747.1	3754838.0	529.6	3.49	4.00
3.25 YES							
L0005449	0	0.24980E-05	484747.1	3754829.4	529.3	3.49	4.00
3.25 YES							
L0005450	0	0.24980E-05	484747.1	3754820.8	529.0	3.49	4.00
3.25 YES							
L0005451	0	0.24980E-05	484747.1	3754812.2	528.8	3.49	4.00
3.25 YES							
L0005452	0	0.24980E-05	484747.1	3754803.7	528.5	3.49	4.00
3.25 YES							
L0005453	0	0.24980E-05	484747.1	3754795.1	528.3	3.49	4.00
3.25 YES							
L0005454	0	0.24980E-05	484747.1	3754786.5	528.0	3.49	4.00
3.25 YES							
L0005455	0	0.24980E-05	484747.1	3754777.9	527.7	3.49	4.00
3.25 YES							
L0005456	0	0.24980E-05	484747.1	3754769.3	527.4	3.49	4.00
3.25 YES							
L0005457	0	0.24980E-05	484747.1	3754760.7	527.1	3.49	4.00
3.25 YES							
L0005458	0	0.24980E-05	484747.1	3754752.1	526.9	3.49	4.00
3.25 YES							
L0005459	0	0.24980E-05	484747.1	3754743.5	526.6	3.49	4.00
3.25 YES							
L0005460	0	0.24980E-05	484747.1	3754734.9	526.3	3.49	4.00
3.25 YES							
L0005461	0	0.24980E-05	484747.1	3754726.3	526.0	3.49	4.00
3.25 YES							
L0005462	0	0.24980E-05	484747.1	3754717.8	525.7	3.49	4.00

```
3.25     YES
 L0005463         0   0.24980E-05  484753.5 3754715.6   525.7     3.49     4.00
3.25     YES
 L0005464         0   0.24980E-05  484762.1 3754715.7   525.8     3.49     4.00
3.25     YES
 L0005465         0   0.24980E-05  484770.7 3754715.8   525.9     3.49     4.00
3.25     YES
 L0005466         0   0.24980E-05  484779.3 3754715.8   526.0     3.49     4.00
3.25     YES
 L0005467         0   0.24980E-05  484787.9 3754715.9   526.0     3.49     4.00
3.25     YES
 L0005468         0   0.24980E-05  484796.5 3754716.0   526.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0005469         0   0.24980E-05  484805.1 3754716.1   526.0     3.49     4.00
3.25     YES
 L0005470         0   0.24980E-05  484813.7 3754716.1   526.0     3.49     4.00
3.25     YES
 L0005471         0   0.24980E-05  484822.3 3754716.2   526.0     3.49     4.00
3.25     YES
 L0005472         0   0.24980E-05  484830.9 3754716.3   526.0     3.49     4.00
3.25     YES
 L0005473         0   0.24980E-05  484839.4 3754716.3   526.0     3.49     4.00
3.25     YES
 L0005474         0   0.24980E-05  484848.0 3754716.4   526.0     3.49     4.00
3.25     YES
 L0005475         0   0.24980E-05  484856.6 3754716.5   526.0     3.49     4.00
3.25     YES
 L0005476         0   0.24980E-05  484865.2 3754716.5   526.0     3.49     4.00
3.25     YES
 L0005477         0   0.24980E-05  484873.8 3754716.6   526.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005478	0	0.24980E-05	484882.4	3754716.7	525.9	3.49	4.00
3.25 YES							
L0005479	0	0.24980E-05	484891.0	3754716.7	525.8	3.49	4.00
3.25 YES							
L0005480	0	0.24980E-05	484899.6	3754716.8	525.7	3.49	4.00
3.25 YES							
L0005481	0	0.24980E-05	484908.2	3754716.9	525.7	3.49	4.00
3.25 YES							
L0005482	0	0.24980E-05	484916.8	3754716.9	525.7	3.49	4.00
3.25 YES							
L0005483	0	0.24980E-05	484925.3	3754717.0	525.7	3.49	4.00
3.25 YES							
L0005484	0	0.24980E-05	484933.9	3754717.1	525.7	3.49	4.00
3.25 YES							
L0005485	0	0.24980E-05	484942.5	3754717.2	525.7	3.49	4.00
3.25 YES							
L0005486	0	0.24980E-05	484951.1	3754717.2	525.7	3.49	4.00
3.25 YES							
L0005487	0	0.24980E-05	484959.7	3754717.3	525.7	3.49	4.00
3.25 YES							
L0005488	0	0.24980E-05	484968.3	3754717.4	525.7	3.49	4.00
3.25 YES							
L0005489	0	0.24980E-05	484976.9	3754717.4	525.7	3.49	4.00
3.25 YES							
L0005490	0	0.24980E-05	484985.5	3754717.5	525.7	3.49	4.00
3.25 YES							
L0005491	0	0.24980E-05	484994.1	3754717.6	525.6	3.49	4.00
3.25 YES							
L0005492	0	0.24980E-05	485002.6	3754717.6	525.4	3.49	4.00
3.25 YES							
L0005493	0	0.24980E-05	485011.2	3754717.7	525.2	3.49	4.00
3.25 YES							
L0005494	0	0.24980E-05	485019.8	3754717.8	525.0	3.49	4.00
3.25 YES							
L0005495	0	0.24980E-05	485028.4	3754717.8	525.0	3.49	4.00
3.25 YES							
L0005496	0	0.24980E-05	485037.0	3754717.9	525.0	3.49	4.00
3.25 YES							
L0005497	0	0.24980E-05	485045.6	3754718.0	525.0	3.49	4.00
3.25 YES							
L0005498	0	0.24980E-05	485054.2	3754718.0	525.0	3.49	4.00
3.25 YES							
L0005499	0	0.24980E-05	485062.8	3754718.1	524.9	3.49	4.00
3.25 YES							
L0005500	0	0.24980E-05	485071.4	3754718.2	524.8	3.49	4.00
3.25 YES							
L0005501	0	0.24980E-05	485080.0	3754718.3	524.7	3.49	4.00
3.25 YES							
L0005502	0	0.24980E-05	485088.5	3754718.3	524.7	3.49	4.00

```
3.25     YES
 L0005503         0   0.24980E-05  485097.1 3754718.4   524.7     3.49     4.00
3.25     YES
 L0005504         0   0.24980E-05  485105.7 3754718.5   524.7     3.49     4.00
3.25     YES
 L0005505         0   0.24980E-05  485114.3 3754718.5   524.7     3.49     4.00
3.25     YES
 L0005506         0   0.24980E-05  485122.9 3754718.6   524.7     3.49     4.00
3.25     YES
 L0005507         0   0.24980E-05  485131.5 3754718.7   524.7     3.49     4.00
3.25     YES
 L0005508         0   0.24980E-05  485140.1 3754718.7   524.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005509         0   0.24980E-05  485148.7 3754718.8   524.5     3.49     4.00
3.25     YES
 L0005510         0   0.24980E-05  485157.3 3754718.9   524.3     3.49     4.00
3.25     YES
 L0005511         0   0.24980E-05  485165.9 3754718.9   524.1     3.49     4.00
3.25     YES
 L0005512         0   0.24980E-05  485174.4 3754719.0   524.0     3.49     4.00
3.25     YES
 L0005513         0   0.24980E-05  485183.0 3754719.1   523.9     3.49     4.00
3.25     YES
 L0005514         0   0.24980E-05  485191.6 3754719.1   523.8     3.49     4.00
3.25     YES
 L0005515         0   0.24980E-05  485200.2 3754719.2   523.8     3.49     4.00
3.25     YES
 L0005516         0   0.24980E-05  485208.8 3754719.3   523.8     3.49     4.00
3.25     YES
 L0005517         0   0.24980E-05  485217.4 3754719.4   523.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005518	0	0.24980E-05	485226.0	3754719.4	523.8	3.49	4.00
3.25 YES							
L0005519	0	0.24980E-05	485234.6	3754719.5	523.7	3.49	4.00
3.25 YES							
L0005520	0	0.24980E-05	485243.2	3754719.6	523.4	3.49	4.00
3.25 YES							
L0005521	0	0.24980E-05	485251.8	3754719.6	523.2	3.49	4.00
3.25 YES							
L0005522	0	0.24980E-05	485260.3	3754719.7	523.0	3.49	4.00
3.25 YES							
L0005523	0	0.24980E-05	485268.9	3754719.8	523.0	3.49	4.00
3.25 YES							
L0005524	0	0.24980E-05	485277.5	3754719.8	523.0	3.49	4.00
3.25 YES							
L0005525	0	0.24980E-05	485286.1	3754719.9	523.0	3.49	4.00
3.25 YES							
L0005526	0	0.24980E-05	485294.7	3754720.0	523.0	3.49	4.00
3.25 YES							
L0005527	0	0.24980E-05	485303.3	3754720.0	522.9	3.49	4.00
3.25 YES							
L0005528	0	0.24980E-05	485311.9	3754720.1	522.8	3.49	4.00
3.25 YES							
L0005529	0	0.24980E-05	485320.5	3754720.2	522.8	3.49	4.00
3.25 YES							
L0005530	0	0.24980E-05	485329.1	3754720.2	522.8	3.49	4.00
3.25 YES							
L0005531	0	0.24980E-05	485337.6	3754720.3	522.8	3.49	4.00
3.25 YES							
L0005532	0	0.24980E-05	485346.2	3754720.4	522.8	3.49	4.00
3.25 YES							
L0005533	0	0.24980E-05	485354.8	3754720.5	522.8	3.49	4.00
3.25 YES							
L0005534	0	0.24980E-05	485363.4	3754720.5	522.8	3.49	4.00
3.25 YES							
L0005535	0	0.24980E-05	485372.0	3754720.6	522.8	3.49	4.00
3.25 YES							
L0005536	0	0.24980E-05	485380.6	3754720.7	522.8	3.49	4.00
3.25 YES							
L0005537	0	0.24980E-05	485389.2	3754720.7	522.8	3.49	4.00
3.25 YES							
L0005538	0	0.24980E-05	485397.8	3754720.8	522.8	3.49	4.00
3.25 YES							
L0005539	0	0.24980E-05	485406.4	3754720.9	522.8	3.49	4.00
3.25 YES							
L0005540	0	0.24980E-05	485415.0	3754720.9	522.7	3.49	4.00
3.25 YES							
L0005541	0	0.24980E-05	485421.2	3754723.3	522.6	3.49	4.00
3.25 YES							
L0005542	0	0.24980E-05	485421.0	3754731.9	522.7	3.49	4.00

```
3.25     YES
 L0005543         0   0.24980E-05  485420.9 3754740.5   522.8     3.49     4.00
3.25     YES
 L0005544         0   0.24980E-05  485420.7 3754749.0   522.9     3.49     4.00
3.25     YES
 L0005545         0   0.24980E-05  485420.6 3754757.6   523.0     3.49     4.00
3.25     YES
 L0005546         0   0.24980E-05  485420.4 3754766.2   523.3     3.49     4.00
3.25     YES
 L0005547         0   0.24980E-05  485420.2 3754774.8   523.6     3.49     4.00
3.25     YES
 L0005548         0   0.24980E-05  485420.1 3754783.4   523.9     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005549         0   0.24980E-05  485419.9 3754792.0   524.2     3.49     4.00
3.25     YES
 L0005550         0   0.24980E-05  485419.8 3754800.6   524.5     3.49     4.00
3.25     YES
 L0005551         0   0.24980E-05  485419.6 3754809.2   524.8     3.49     4.00
3.25     YES
 L0005552         0   0.24980E-05  485419.5 3754817.8   525.0     3.49     4.00
3.25     YES
 L0005553         0   0.24980E-05  485419.3 3754826.3   525.0     3.49     4.00
3.25     YES
 L0005554         0   0.24980E-05  485419.1 3754834.9   525.0     3.49     4.00
3.25     YES
 L0005555         0   0.24980E-05  485419.0 3754843.5   525.0     3.49     4.00
3.25     YES
 L0005556         0   0.24980E-05  485418.8 3754852.1   525.2     3.49     4.00
3.25     YES
 L0005557         0   0.24980E-05  485418.7 3754860.7   525.5     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005558	0	0.24980E-05	485418.5	3754869.3	525.8	3.49	4.00
3.25 YES							
L0005559	0	0.24980E-05	485418.3	3754877.9	526.0	3.49	4.00
3.25 YES							
L0005560	0	0.24980E-05	485418.2	3754886.5	526.2	3.49	4.00
3.25 YES							
L0005561	0	0.24980E-05	485418.0	3754895.1	526.5	3.49	4.00
3.25 YES							
L0005562	0	0.24980E-05	485417.9	3754903.6	526.7	3.49	4.00
3.25 YES							
L0005563	0	0.24980E-05	485417.7	3754912.2	526.8	3.49	4.00
3.25 YES							
L0005564	0	0.24980E-05	485417.5	3754920.8	526.9	3.49	4.00
3.25 YES							
L0005565	0	0.24980E-05	485417.4	3754929.4	526.9	3.49	4.00
3.25 YES							
L0005566	0	0.24980E-05	485417.2	3754938.0	527.0	3.49	4.00
3.25 YES							
L0005567	0	0.24980E-05	485417.1	3754946.6	527.3	3.49	4.00
3.25 YES							
L0005568	0	0.24980E-05	485416.9	3754955.2	527.6	3.49	4.00
3.25 YES							
L0005569	0	0.24980E-05	485416.8	3754963.8	527.9	3.49	4.00
3.25 YES							
L0005570	0	0.24980E-05	485414.9	3754970.6	528.0	3.49	4.00
3.25 YES							
L0005571	0	0.24980E-05	485406.3	3754970.4	528.0	3.49	4.00
3.25 YES							
L0005572	0	0.24980E-05	485397.7	3754970.3	528.0	3.49	4.00
3.25 YES							
L0005573	0	0.24980E-05	485389.1	3754970.2	528.1	3.49	4.00
3.25 YES							
L0005574	0	0.24980E-05	485380.5	3754970.0	528.1	3.49	4.00
3.25 YES							
L0005575	0	0.24980E-05	485371.9	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005576	0	0.24980E-05	485363.3	3754969.8	528.1	3.49	4.00
3.25 YES							
L0005577	0	0.24980E-05	485354.8	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005578	0	0.24980E-05	485346.2	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005579	0	0.24980E-05	485337.6	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005580	0	0.24980E-05	485329.0	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005581	0	0.24980E-05	485320.4	3754969.9	528.1	3.49	4.00
3.25 YES							
L0005582	0	0.24980E-05	485311.8	3754969.9	528.4	3.49	4.00

```
3.25     YES
 L0005583         0   0.24980E-05  485303.2 3754969.9   528.6     3.49     4.00
3.25     YES
 L0005584         0   0.24980E-05  485294.6 3754970.0   528.9     3.49     4.00
3.25     YES
 L0005585         0   0.24980E-05  485286.0 3754970.0   529.0     3.49     4.00
3.25     YES
 L0005586         0   0.24980E-05  485277.4 3754970.0   529.0     3.49     4.00
3.25     YES
 L0005587         0   0.24980E-05  485268.9 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005588         0   0.24980E-05  485260.3 3754970.0   529.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005589         0   0.24980E-05  485251.7 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005590         0   0.24980E-05  485243.1 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005591         0   0.24980E-05  485234.5 3754970.0   529.1     3.49     4.00
3.25     YES
 L0005592         0   0.24980E-05  485225.9 3754970.1   529.2     3.49     4.00
3.25     YES
 L0005593         0   0.24980E-05  485217.3 3754970.1   529.5     3.49     4.00
3.25     YES
 L0005594         0   0.24980E-05  485208.7 3754970.1   529.8     3.49     4.00
3.25     YES
 L0005595         0   0.24980E-05  485200.1 3754970.1   530.0     3.49     4.00
3.25     YES
 L0005596         0   0.24980E-05  485191.5 3754970.1   530.0     3.49     4.00
3.25     YES
 L0005597         0   0.24980E-05  485183.0 3754970.1   530.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25	YES							
L0005598		0	0.24980E-05	485174.4	3754970.1	530.0	3.49	4.00
3.25	YES							
L0005599		0	0.24980E-05	485165.8	3754970.2	530.0	3.49	4.00
3.25	YES							
L0005600		0	0.24980E-05	485157.2	3754970.2	530.0	3.49	4.00
3.25	YES							
L0005601		0	0.24980E-05	485148.6	3754970.2	530.1	3.49	4.00
3.25	YES							
L0005602		0	0.24980E-05	485140.0	3754970.2	530.1	3.49	4.00
3.25	YES							
L0005603		0	0.24980E-05	485131.4	3754970.2	530.1	3.49	4.00
3.25	YES							
L0005604		0	0.24980E-05	485122.8	3754970.2	530.1	3.49	4.00
3.25	YES							
L0005605		0	0.24980E-05	485114.2	3754970.2	530.1	3.49	4.00
3.25	YES							
L0005606		0	0.24980E-05	485105.6	3754970.3	530.3	3.49	4.00
3.25	YES							
L0005607		0	0.24980E-05	485097.1	3754970.3	530.5	3.49	4.00
3.25	YES							
L0005608		0	0.24980E-05	485088.5	3754970.3	530.8	3.49	4.00
3.25	YES							
L0005609		0	0.24980E-05	485079.9	3754970.3	531.0	3.49	4.00
3.25	YES							
L0005610		0	0.24980E-05	485071.3	3754970.3	531.0	3.49	4.00
3.25	YES							
L0005611		0	0.24980E-05	485062.7	3754970.3	531.0	3.49	4.00
3.25	YES							
L0005612		0	0.24980E-05	485054.1	3754970.3	531.0	3.49	4.00
3.25	YES							
L0005613		0	0.24980E-05	485045.5	3754970.3	531.0	3.49	4.00
3.25	YES							
L0005614		0	0.24980E-05	485036.9	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005615		0	0.24980E-05	485028.3	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005616		0	0.24980E-05	485019.7	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005617		0	0.24980E-05	485011.2	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005618		0	0.24980E-05	485002.6	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005619		0	0.24980E-05	484994.0	3754970.4	531.1	3.49	4.00
3.25	YES							
L0005620		0	0.24980E-05	484985.4	3754970.4	531.3	3.49	4.00
3.25	YES							
L0005621		0	0.24980E-05	484976.8	3754970.5	531.5	3.49	4.00
3.25	YES							
L0005622		0	0.24980E-05	484968.2	3754970.5	531.8	3.49	4.00

```
3.25     YES
 L0005623         0   0.24980E-05  484959.6 3754970.5   532.0     3.49     4.00
3.25     YES
 L0005624         0   0.24980E-05  484951.0 3754970.5   532.0     3.49     4.00
3.25     YES
 L0005625         0   0.24980E-05  484942.4 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005626         0   0.24980E-05  484933.8 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005627         0   0.24980E-05  484925.3 3754970.5   532.1     3.49     4.00
3.25     YES
 L0005628         0   0.24980E-05  484916.7 3754970.6   532.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005629         0   0.24980E-05  484908.1 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005630         0   0.24980E-05  484899.5 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005631         0   0.24980E-05  484890.9 3754970.6   532.1     3.49     4.00
3.25     YES
 L0005632         0   0.24980E-05  484882.3 3754970.4   532.1     3.49     4.00
3.25     YES
 L0005633         0   0.24980E-05  484873.8 3754969.6   532.1     3.49     4.00
3.25     YES
 L0005634         0   0.24980E-05  484865.2 3754968.8   532.1     3.49     4.00
3.25     YES
 L0005635         0   0.24980E-05  484856.7 3754968.1   532.1     3.49     4.00
3.25     YES
 L0005636         0   0.24980E-05  484848.1 3754967.3   532.0     3.49     4.00
3.25     YES
 L0005637         0   0.24980E-05  484839.8 3754965.5   532.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005638	0	0.24980E-05	484831.9	3754962.1	531.9	3.49	4.00
3.25 YES							
L0005639	0	0.24980E-05	484824.0	3754958.8	531.9	3.49	4.00
3.25 YES							
L0005640	0	0.24980E-05	484815.8	3754956.4	531.9	3.49	4.00
3.25 YES							
L0005641	0	0.24980E-05	484807.4	3754954.7	532.1	3.49	4.00
3.25 YES							
L0005642	0	0.24980E-05	484798.9	3754953.0	532.2	3.49	4.00
3.25 YES							
L0005643	0	0.24980E-05	484790.5	3754951.8	532.3	3.49	4.00
3.25 YES							
L0005644	0	0.24980E-05	484781.9	3754951.1	532.5	3.49	4.00
3.25 YES							
L0005645	0	0.44800E-06	484765.2	3755016.9	533.7	3.49	4.00
3.25 YES							
L0005646	0	0.44800E-06	484756.6	3755017.1	533.7	3.49	4.00
3.25 YES							
L0005647	0	0.44800E-06	484748.0	3755017.3	533.7	3.49	4.00
3.25 YES							
L0005648	0	0.44800E-06	484739.4	3755017.5	533.7	3.49	4.00
3.25 YES							
L0005649	0	0.44800E-06	484730.8	3755017.7	533.7	3.49	4.00
3.25 YES							
L0005650	0	0.44800E-06	484722.2	3755017.8	533.7	3.49	4.00
3.25 YES							
L0005651	0	0.44800E-06	484713.6	3755018.0	533.8	3.49	4.00
3.25 YES							
L0005652	0	0.44800E-06	484705.0	3755018.2	533.9	3.49	4.00
3.25 YES							
L0005653	0	0.44800E-06	484696.5	3755018.4	533.9	3.49	4.00
3.25 YES							
L0005654	0	0.44800E-06	484687.9	3755018.6	534.0	3.49	4.00
3.25 YES							
L0005655	0	0.44800E-06	484679.3	3755018.8	534.0	3.49	4.00
3.25 YES							
L0005656	0	0.44800E-06	484670.7	3755018.9	534.0	3.49	4.00
3.25 YES							
L0005657	0	0.44800E-06	484662.1	3755019.1	534.0	3.49	4.00
3.25 YES							
L0005658	0	0.44800E-06	484653.5	3755019.3	534.2	3.49	4.00
3.25 YES							
L0005659	0	0.44800E-06	484644.9	3755019.5	534.4	3.49	4.00
3.25 YES							
L0005660	0	0.44800E-06	484636.3	3755019.7	534.6	3.49	4.00
3.25 YES							
L0005661	0	0.44800E-06	484627.8	3755019.8	534.8	3.49	4.00
3.25 YES							
L0005662	0	0.44800E-06	484619.2	3755020.5	534.8	3.49	4.00

```
3.25     YES
 L0005663         0   0.44800E-06  484610.7 3755021.5   534.8     3.49     4.00
3.25     YES
 L0005664         0   0.44800E-06  484602.1 3755022.5   534.9     3.49     4.00
3.25     YES
 L0005665         0   0.44800E-06  484593.6 3755023.5   534.9     3.49     4.00
3.25     YES
 L0005666         0   0.44800E-06  484585.1 3755024.5   534.9     3.49     4.00
3.25     YES
 L0005667         0   0.44800E-06  484576.5 3755025.5   535.0     3.49     4.00
3.25     YES
 L0005668         0   0.44800E-06  484568.0 3755026.5   535.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005669         0   0.44800E-06  484559.5 3755027.5   535.0     3.49     4.00
3.25     YES
 L0005670         0   0.44800E-06  484550.9 3755028.5   535.0     3.49     4.00
3.25     YES
 L0005671         0   0.44800E-06  484542.5 3755030.0   535.0     3.49     4.00
3.25     YES
 L0005672         0   0.44800E-06  484534.3 3755032.6   535.0     3.49     4.00
3.25     YES
 L0005673         0   0.44800E-06  484526.1 3755035.2   535.0     3.49     4.00
3.25     YES
 L0005674         0   0.44800E-06  484517.9 3755037.7   535.0     3.49     4.00
3.25     YES
 L0005675         0   0.44800E-06  484509.7 3755040.3   535.0     3.49     4.00
3.25     YES
 L0005676         0   0.44800E-06  484501.5 3755042.9   535.0     3.49     4.00
3.25     YES
 L0005677         0   0.44800E-06  484493.4 3755045.5   535.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005678	0	0.44800E-06	484485.2	3755048.0	535.0	3.49	4.00
3.25 YES							
L0005679	0	0.44800E-06	484477.0	3755050.6	535.0	3.49	4.00
3.25 YES							
L0005680	0	0.44800E-06	484468.8	3755053.2	535.0	3.49	4.00
3.25 YES							
L0005681	0	0.44800E-06	484460.6	3755055.8	535.0	3.49	4.00
3.25 YES							
L0005682	0	0.44800E-06	484452.4	3755058.4	535.1	3.49	4.00
3.25 YES							
L0005683	0	0.44800E-06	484444.2	3755060.9	535.1	3.49	4.00
3.25 YES							
L0005684	0	0.44800E-06	484436.1	3755063.7	535.2	3.49	4.00
3.25 YES							
L0005685	0	0.44800E-06	484428.2	3755067.2	535.4	3.49	4.00
3.25 YES							
L0005686	0	0.44800E-06	484420.4	3755070.8	535.5	3.49	4.00
3.25 YES							
L0005687	0	0.44800E-06	484412.6	3755074.3	535.6	3.49	4.00
3.25 YES							
L0005688	0	0.44800E-06	484404.8	3755077.9	535.7	3.49	4.00
3.25 YES							
L0005689	0	0.44800E-06	484396.9	3755081.4	535.8	3.49	4.00
3.25 YES							
L0005690	0	0.44800E-06	484389.1	3755085.0	535.9	3.49	4.00
3.25 YES							
L0005691	0	0.44800E-06	484381.3	3755088.5	536.1	3.49	4.00
3.25 YES							
L0005692	0	0.44800E-06	484373.5	3755092.1	536.2	3.49	4.00
3.25 YES							
L0005693	0	0.44800E-06	484365.7	3755095.6	536.3	3.49	4.00
3.25 YES							
L0005694	0	0.44800E-06	484357.8	3755099.2	536.4	3.49	4.00
3.25 YES							
L0005695	0	0.44800E-06	484350.0	3755102.7	536.5	3.49	4.00
3.25 YES							
L0005696	0	0.44800E-06	484342.2	3755106.3	536.7	3.49	4.00
3.25 YES							
L0005697	0	0.44800E-06	484334.4	3755109.8	536.8	3.49	4.00
3.25 YES							
L0005698	0	0.44800E-06	484326.5	3755113.4	536.9	3.49	4.00
3.25 YES							
L0005699	0	0.44800E-06	484318.7	3755116.8	537.0	3.49	4.00
3.25 YES							
L0005700	0	0.44800E-06	484310.8	3755120.3	537.0	3.49	4.00
3.25 YES							
L0005701	0	0.44800E-06	484303.0	3755123.8	537.0	3.49	4.00
3.25 YES							
L0005702	0	0.44800E-06	484295.1	3755127.3	537.0	3.49	4.00

```
3.25     YES
 L0005703         0   0.44800E-06  484287.2 3755130.4   537.0     3.49     4.00
3.25     YES
 L0005704         0   0.44800E-06  484279.4 3755134.1   537.0     3.49     4.00
3.25     YES
 L0005705         0   0.44800E-06  484271.7 3755137.8   537.0     3.49     4.00
3.25     YES
 L0005706         0   0.44800E-06  484263.9 3755141.4   537.0     3.49     4.00
3.25     YES
 L0005707         0   0.44800E-06  484256.1 3755145.1   537.0     3.49     4.00
3.25     YES
 L0005708         0   0.44800E-06  484248.4 3755148.8   537.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005709         0   0.44800E-06  484240.6 3755152.5   537.2     3.49     4.00
3.25     YES
 L0005710         0   0.44800E-06  484232.8 3755156.1   537.3     3.49     4.00
3.25     YES
 L0005711         0   0.44800E-06  484225.1 3755159.8   537.4     3.49     4.00
3.25     YES
 L0005712         0   0.44800E-06  484217.2 3755163.2   537.6     3.49     4.00
3.25     YES
 L0005713         0   0.44800E-06  484209.2 3755166.4   537.7     3.49     4.00
3.25     YES
 L0005714         0   0.44800E-06  484201.3 3755169.7   537.8     3.49     4.00
3.25     YES
 L0005715         0   0.44800E-06  484193.3 3755172.9   537.9     3.49     4.00
3.25     YES
 L0005716         0   0.44800E-06  484185.4 3755176.2   538.0     3.49     4.00
3.25     YES
 L0005717         0   0.44800E-06  484177.4 3755179.4   538.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005718	0	0.44800E-06	484169.5	3755182.7	538.0	3.49	4.00
3.25 YES							
L0005719	0	0.44800E-06	484161.5	3755185.9	538.0	3.49	4.00
3.25 YES							
L0005720	0	0.44800E-06	484153.6	3755189.2	538.0	3.49	4.00
3.25 YES							
L0005721	0	0.44800E-06	484145.6	3755192.4	538.0	3.49	4.00
3.25 YES							
L0005722	0	0.44800E-06	484137.4	3755194.9	538.0	3.49	4.00
3.25 YES							
L0005723	0	0.44800E-06	484129.1	3755197.2	538.0	3.49	4.00
3.25 YES							
L0005724	0	0.44800E-06	484120.8	3755199.5	538.0	3.49	4.00
3.25 YES							
L0005725	0	0.44800E-06	484112.6	3755201.8	538.0	3.49	4.00
3.25 YES							
L0005726	0	0.44800E-06	484104.3	3755204.0	538.0	3.49	4.00
3.25 YES							
L0005727	0	0.44800E-06	484096.0	3755206.3	538.0	3.49	4.00
3.25 YES							
L0005728	0	0.44800E-06	484087.7	3755208.6	538.1	3.49	4.00
3.25 YES							
L0005729	0	0.44800E-06	484079.4	3755210.9	538.1	3.49	4.00
3.25 YES							
L0005730	0	0.44800E-06	484071.1	3755213.0	538.2	3.49	4.00
3.25 YES							
L0005731	0	0.44800E-06	484062.5	3755213.6	538.2	3.49	4.00
3.25 YES							
L0005732	0	0.44800E-06	484054.0	3755214.2	538.3	3.49	4.00
3.25 YES							
L0005733	0	0.44800E-06	484045.4	3755214.8	538.3	3.49	4.00
3.25 YES							
L0005734	0	0.44800E-06	484036.8	3755215.4	538.3	3.49	4.00
3.25 YES							
L0005735	0	0.44800E-06	484028.3	3755216.0	538.3	3.49	4.00
3.25 YES							
L0005736	0	0.44800E-06	484019.7	3755216.7	538.2	3.49	4.00
3.25 YES							
L0005737	0	0.44800E-06	484011.1	3755217.3	538.1	3.49	4.00
3.25 YES							
L0005738	0	0.44800E-06	484002.6	3755217.9	538.0	3.49	4.00
3.25 YES							
L0005739	0	0.44800E-06	483994.0	3755218.5	537.9	3.49	4.00
3.25 YES							
L0005740	0	0.44800E-06	483985.4	3755219.1	537.7	3.49	4.00
3.25 YES							
L0005741	0	0.44800E-06	483976.9	3755219.7	537.6	3.49	4.00
3.25 YES							
L0005742	0	0.44800E-06	483968.3	3755220.1	537.5	3.49	4.00

```
3.25     YES
 L0005743         0   0.44800E-06  483959.7 3755220.0   537.5     3.49     4.00
3.25     YES
 L0005744         0   0.44800E-06  483951.1 3755220.0   537.4     3.49     4.00
3.25     YES
 L0005745         0   0.44800E-06  483942.5 3755219.9   537.4     3.49     4.00
3.25     YES
 L0005746         0   0.44800E-06  483933.9 3755219.9   537.4     3.49     4.00
3.25     YES
 L0005747         0   0.44800E-06  483925.3 3755219.8   537.4     3.49     4.00
3.25     YES
 L0005748         0   0.44800E-06  483916.7 3755219.7   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005749         0   0.44800E-06  483908.2 3755219.7   537.4     3.49     4.00
3.25     YES
 L0005750         0   0.44800E-06  483899.6 3755219.6   537.4     3.49     4.00
3.25     YES
 L0005751         0   0.44800E-06  483891.0 3755219.6   537.4     3.49     4.00
3.25     YES
 L0005752         0   0.44800E-06  483882.4 3755219.5   537.4     3.49     4.00
3.25     YES
 L0005753         0   0.44800E-06  483873.8 3755219.4   537.4     3.49     4.00
3.25     YES
 L0005754         0   0.44800E-06  483865.2 3755219.4   537.4     3.49     4.00
3.25     YES
 L0005755         0   0.44800E-06  483856.6 3755219.3   537.4     3.49     4.00
3.25     YES
 L0005756         0   0.44800E-06  483848.0 3755219.3   537.4     3.49     4.00
3.25     YES
 L0005757         0   0.44800E-06  483839.4 3755219.2   537.3     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005758	0	0.44800E-06	483830.8	3755219.1	537.1	3.49	4.00
3.25 YES							
L0005759	0	0.44800E-06	483822.3	3755219.1	537.0	3.49	4.00
3.25 YES							
L0005760	0	0.44800E-06	483813.7	3755219.0	536.9	3.49	4.00
3.25 YES							
L0005761	0	0.44800E-06	483805.1	3755219.0	536.7	3.49	4.00
3.25 YES							
L0005762	0	0.44800E-06	483796.5	3755218.9	536.5	3.49	4.00
3.25 YES							
L0005763	0	0.44800E-06	483787.9	3755218.8	536.5	3.49	4.00
3.25 YES							
L0005764	0	0.44800E-06	483779.3	3755218.8	536.6	3.49	4.00
3.25 YES							
L0005765	0	0.44800E-06	483770.7	3755218.7	536.8	3.49	4.00
3.25 YES							
L0005766	0	0.44800E-06	483762.1	3755218.6	537.0	3.49	4.00
3.25 YES							
L0005767	0	0.44800E-06	483753.5	3755218.6	537.0	3.49	4.00
3.25 YES							
L0005768	0	0.44800E-06	483745.0	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005769	0	0.44800E-06	483736.4	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005770	0	0.44800E-06	483727.8	3755218.4	537.0	3.49	4.00
3.25 YES							
L0005771	0	0.44800E-06	483719.2	3755218.3	537.0	3.49	4.00
3.25 YES							
L0005772	0	0.44800E-06	483710.6	3755218.5	537.0	3.49	4.00
3.25 YES							
L0005773	0	0.44800E-06	483702.0	3755218.7	537.0	3.49	4.00
3.25 YES							
L0005774	0	0.44800E-06	483693.4	3755218.9	537.0	3.49	4.00
3.25 YES							
L0005775	0	0.44800E-06	483684.8	3755219.2	537.0	3.49	4.00
3.25 YES							
L0005776	0	0.44800E-06	483676.2	3755219.4	537.0	3.49	4.00
3.25 YES							
L0005777	0	0.44800E-06	483667.7	3755219.6	537.1	3.49	4.00
3.25 YES							
L0005778	0	0.44800E-06	483659.1	3755219.8	537.4	3.49	4.00
3.25 YES							
L0005779	0	0.44800E-06	483650.5	3755220.0	537.6	3.49	4.00
3.25 YES							
L0005780	0	0.44800E-06	483641.9	3755220.3	537.9	3.49	4.00
3.25 YES							
L0005781	0	0.44800E-06	483633.3	3755220.5	538.1	3.49	4.00
3.25 YES							
L0005782	0	0.44800E-06	483624.7	3755220.7	538.3	3.49	4.00

```
3.25     YES
 L0005783         0   0.44800E-06  483616.1 3755220.9   538.4     3.49     4.00
3.25     YES
 L0005784         0   0.44800E-06  483607.5 3755221.1   538.6     3.49     4.00
3.25     YES
 L0005785         0   0.44800E-06  483599.0 3755221.4   538.9     3.49     4.00
3.25     YES
 L0005786         0   0.44800E-06  483590.4 3755221.6   539.2     3.49     4.00
3.25     YES
 L0005787         0   0.44800E-06  483581.8 3755221.8   539.4     3.49     4.00
3.25     YES
 L0005788         0   0.44800E-06  483573.2 3755222.0   539.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005789         0   0.44800E-06  483564.6 3755222.2   539.3     3.49     4.00
3.25     YES
 L0005790         0   0.44800E-06  483556.0 3755222.5   539.1     3.49     4.00
3.25     YES
 L0005791         0   0.44800E-06  483547.4 3755222.7   539.0     3.49     4.00
3.25     YES
 L0005792         0   0.44800E-06  483538.9 3755222.9   539.0     3.49     4.00
3.25     YES
 L0005793         0   0.44800E-06  483530.3 3755223.1   539.0     3.49     4.00
3.25     YES
 L0005794         0   0.44800E-06  483521.7 3755223.3   539.0     3.49     4.00
3.25     YES
 L0005795         0   0.44800E-06  483513.1 3755223.6   539.0     3.49     4.00
3.25     YES
 L0005796         0   0.44800E-06  483506.5 3755225.7   539.0     3.49     4.00
3.25     YES
 L0005797         0   0.44800E-06  483506.7 3755234.3   539.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005798	0	0.44800E-06	483506.9	3755242.9	539.3	3.49	4.00
3.25 YES							
L0005799	0	0.44800E-06	483507.0	3755251.5	539.7	3.49	4.00
3.25 YES							
L0005800	0	0.44800E-06	483507.2	3755260.1	540.1	3.49	4.00
3.25 YES							
L0005801	0	0.44800E-06	483507.3	3755268.7	540.5	3.49	4.00
3.25 YES							
L0005802	0	0.44800E-06	483507.5	3755277.3	541.0	3.49	4.00
3.25 YES							
L0005803	0	0.44800E-06	483507.6	3755285.9	541.4	3.49	4.00
3.25 YES							
L0005804	0	0.44800E-06	483507.8	3755294.4	541.9	3.49	4.00
3.25 YES							
L0005805	0	0.44800E-06	483508.0	3755303.0	542.3	3.49	4.00
3.25 YES							
L0005806	0	0.44800E-06	483508.1	3755311.6	542.7	3.49	4.00
3.25 YES							
L0005807	0	0.44800E-06	483508.3	3755320.2	543.1	3.49	4.00
3.25 YES							
L0005808	0	0.44800E-06	483508.4	3755328.8	543.7	3.49	4.00
3.25 YES							
L0005809	0	0.44800E-06	483508.6	3755337.4	544.8	3.49	4.00
3.25 YES							
L0005810	0	0.44800E-06	483508.7	3755346.0	546.0	3.49	4.00
3.25 YES							
L0005811	0	0.44800E-06	483508.9	3755354.6	547.1	3.49	4.00
3.25 YES							
L0005812	0	0.44800E-06	483509.1	3755363.1	547.6	3.49	4.00
3.25 YES							
L0005813	0	0.44800E-06	483509.2	3755371.7	547.9	3.49	4.00
3.25 YES							
L0005814	0	0.44800E-06	483509.4	3755380.3	548.1	3.49	4.00
3.25 YES							
L0005815	0	0.44800E-06	483509.5	3755388.9	548.3	3.49	4.00
3.25 YES							
L0005816	0	0.44800E-06	483509.7	3755397.5	548.2	3.49	4.00
3.25 YES							
L0005817	0	0.44800E-06	483509.8	3755406.1	548.1	3.49	4.00
3.25 YES							
L0005818	0	0.44800E-06	483510.0	3755414.7	548.0	3.49	4.00
3.25 YES							
L0005819	0	0.16820E-06	484782.1	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005820	0	0.16820E-06	484790.7	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005821	0	0.16820E-06	484799.3	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005822	0	0.16820E-06	484807.9	3755018.6	533.7	3.49	4.00

```
3.25     YES
 L0005823         0   0.16820E-06  484816.5 3755018.6   533.7     3.49     4.00
3.25     YES
 L0005824         0   0.16820E-06  484825.1 3755018.7   533.7     3.49     4.00
3.25     YES
 L0005825         0   0.16820E-06  484833.7 3755018.7   533.7     3.49     4.00
3.25     YES
 L0005826         0   0.16820E-06  484842.3 3755018.8   533.8     3.49     4.00
3.25     YES
 L0005827         0   0.16820E-06  484850.8 3755018.8   533.8     3.49     4.00
3.25     YES
 L0005828         0   0.16820E-06  484859.4 3755018.8   533.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0005829         0   0.16820E-06  484868.0 3755018.9   533.8     3.49     4.00
3.25     YES
 L0005830         0   0.16820E-06  484876.6 3755018.9   533.6     3.49     4.00
3.25     YES
 L0005831         0   0.16820E-06  484885.2 3755019.0   533.4     3.49     4.00
3.25     YES
 L0005832         0   0.16820E-06  484893.8 3755019.0   533.2     3.49     4.00
3.25     YES
 L0005833         0   0.16820E-06  484902.4 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005834         0   0.16820E-06  484911.0 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005835         0   0.16820E-06  484919.6 3755019.1   533.0     3.49     4.00
3.25     YES
 L0005836         0   0.16820E-06  484928.2 3755019.2   533.0     3.49     4.00
3.25     YES
 L0005837         0   0.16820E-06  484936.7 3755019.2   532.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005838	0	0.16820E-06	484945.3	3755019.3	532.9	3.49	4.00
3.25 YES							
L0005839	0	0.16820E-06	484953.9	3755019.3	532.8	3.49	4.00
3.25 YES							
L0005840	0	0.16820E-06	484962.5	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005841	0	0.16820E-06	484971.1	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005842	0	0.16820E-06	484979.7	3755019.4	532.8	3.49	4.00
3.25 YES							
L0005843	0	0.16820E-06	484988.3	3755019.5	532.8	3.49	4.00
3.25 YES							
L0005844	0	0.16820E-06	484996.9	3755019.5	532.8	3.49	4.00
3.25 YES							
L0005845	0	0.16820E-06	485005.5	3755019.6	532.8	3.49	4.00
3.25 YES							
L0005846	0	0.16820E-06	485014.1	3755019.6	532.8	3.49	4.00
3.25 YES							
L0005847	0	0.16820E-06	485022.6	3755019.6	532.7	3.49	4.00
3.25 YES							
L0005848	0	0.16820E-06	485031.2	3755019.7	532.4	3.49	4.00
3.25 YES							
L0005849	0	0.16820E-06	485039.8	3755019.7	532.1	3.49	4.00
3.25 YES							
L0005850	0	0.16820E-06	485048.4	3755019.8	531.8	3.49	4.00
3.25 YES							
L0005851	0	0.16820E-06	485057.0	3755019.8	531.8	3.49	4.00
3.25 YES							
L0005852	0	0.16820E-06	485065.6	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005853	0	0.16820E-06	485074.2	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005854	0	0.16820E-06	485082.8	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005855	0	0.16820E-06	485091.4	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005856	0	0.16820E-06	485100.0	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005857	0	0.16820E-06	485108.5	3755020.1	531.8	3.49	4.00
3.25 YES							
L0005858	0	0.16820E-06	485117.1	3755020.1	531.6	3.49	4.00
3.25 YES							
L0005859	0	0.16820E-06	485125.7	3755020.1	531.4	3.49	4.00
3.25 YES							
L0005860	0	0.16820E-06	485134.3	3755020.2	531.1	3.49	4.00
3.25 YES							
L0005861	0	0.16820E-06	485142.9	3755020.2	531.0	3.49	4.00
3.25 YES							
L0005862	0	0.16820E-06	485151.5	3755020.3	530.9	3.49	4.00

```
3.25     YES
 L0005863         0   0.16820E-06  485160.1 3755020.3   530.9     3.49     4.00
3.25     YES
 L0005864         0   0.16820E-06  485168.7 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005865         0   0.16820E-06  485177.3 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005866         0   0.16820E-06  485185.8 3755020.4   530.8     3.49     4.00
3.25     YES
 L0005867         0   0.16820E-06  485194.4 3755020.5   530.8     3.49     4.00
3.25     YES
 L0005868         0   0.16820E-06  485203.0 3755020.5   530.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 L0005869         0   0.16820E-06  485211.6 3755020.6   530.8     3.49     4.00
3.25     YES
 L0005870         0   0.16820E-06  485220.2 3755020.6   530.8     3.49     4.00
3.25     YES
 L0005871         0   0.16820E-06  485228.8 3755020.7   530.8     3.49     4.00
3.25     YES
 L0005872         0   0.16820E-06  485237.4 3755020.7   530.6     3.49     4.00
3.25     YES
 L0005873         0   0.16820E-06  485246.0 3755020.7   530.4     3.49     4.00
3.25     YES
 L0005874         0   0.16820E-06  485254.6 3755020.8   530.1     3.49     4.00
3.25     YES
 L0005875         0   0.16820E-06  485263.2 3755020.8   530.0     3.49     4.00
3.25     YES
 L0005876         0   0.16820E-06  485271.7 3755020.9   529.9     3.49     4.00
3.25     YES
 L0005877         0   0.16820E-06  485280.3 3755020.9   529.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005878	0	0.16820E-06	485288.9	3755020.9	529.8	3.49	4.00
3.25 YES							
L0005879	0	0.16820E-06	485297.5	3755021.0	529.8	3.49	4.00
3.25 YES							
L0005880	0	0.16820E-06	485306.1	3755021.0	529.8	3.49	4.00
3.25 YES							
L0005881	0	0.16820E-06	485314.7	3755021.1	529.8	3.49	4.00
3.25 YES							
L0005882	0	0.16820E-06	485323.3	3755021.1	529.8	3.49	4.00
3.25 YES							
L0005883	0	0.16820E-06	485331.9	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005884	0	0.16820E-06	485340.5	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005885	0	0.16820E-06	485349.1	3755021.2	529.8	3.49	4.00
3.25 YES							
L0005886	0	0.16820E-06	485357.6	3755021.3	529.6	3.49	4.00
3.25 YES							
L0005887	0	0.16820E-06	485366.2	3755021.3	529.4	3.49	4.00
3.25 YES							
L0005888	0	0.16820E-06	485374.8	3755021.4	529.1	3.49	4.00
3.25 YES							
L0005889	0	0.16820E-06	485383.4	3755021.4	529.0	3.49	4.00
3.25 YES							
L0005890	0	0.16820E-06	485392.0	3755021.5	528.9	3.49	4.00
3.25 YES							
L0005891	0	0.16820E-06	485400.6	3755021.5	528.9	3.49	4.00
3.25 YES							
L0005892	0	0.16820E-06	485409.2	3755021.5	528.8	3.49	4.00
3.25 YES							
L0005893	0	0.16820E-06	485417.8	3755021.6	528.8	3.49	4.00
3.25 YES							
L0005894	0	0.16820E-06	485426.4	3755021.6	528.8	3.49	4.00
3.25 YES							
L0005895	0	0.16820E-06	485435.0	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005896	0	0.16820E-06	485443.5	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005897	0	0.16820E-06	485452.1	3755021.7	528.8	3.49	4.00
3.25 YES							
L0005898	0	0.16820E-06	485460.7	3755021.8	528.8	3.49	4.00
3.25 YES							
L0005899	0	0.16820E-06	485469.3	3755021.8	528.8	3.49	4.00
3.25 YES							
L0005900	0	0.16820E-06	485477.9	3755021.9	528.8	3.49	4.00
3.25 YES							
L0005901	0	0.16820E-06	485486.5	3755021.9	528.8	3.49	4.00
3.25 YES							
L0005902	0	0.16820E-06	485495.1	3755022.0	528.8	3.49	4.00

```
3.25     YES
 L0005903         0   0.16820E-06  485503.7 3755022.0   528.8     3.49     4.00
3.25     YES
 L0005904         0   0.16820E-06  485512.3 3755022.0   528.9     3.49     4.00
3.25     YES
 L0005905         0   0.16820E-06  485514.2 3755028.6   529.0     3.49     4.00
3.25     YES
 L0005906         0   0.16820E-06  485514.0 3755037.2   529.0     3.49     4.00
3.25     YES
 L0005907         0   0.16820E-06  485513.9 3755045.7   529.0     3.49     4.00
3.25     YES
 L0005908         0   0.16820E-06  485513.7 3755054.3   529.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005909         0   0.16820E-06  485513.5 3755062.9   529.2     3.49     4.00
3.25     YES
 L0005910         0   0.16820E-06  485513.3 3755071.5   529.5     3.49     4.00
3.25     YES
 L0005911         0   0.16820E-06  485513.1 3755080.1   529.8     3.49     4.00
3.25     YES
 L0005912         0   0.16820E-06  485513.0 3755088.7   530.1     3.49     4.00
3.25     YES
 L0005913         0   0.16820E-06  485512.8 3755097.3   530.4     3.49     4.00
3.25     YES
 L0005914         0   0.16820E-06  485512.6 3755105.9   530.6     3.49     4.00
3.25     YES
 L0005915         0   0.16820E-06  485512.4 3755114.5   530.9     3.49     4.00
3.25     YES
 L0005916         0   0.16820E-06  485512.3 3755123.0   531.1     3.49     4.00
3.25     YES
 L0005917         0   0.16820E-06  485512.1 3755131.6   531.2     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005918	0	0.16820E-06	485511.9	3755140.2	531.3	3.49	4.00
3.25 YES							
L0005919	0	0.16820E-06	485511.7	3755148.8	531.4	3.49	4.00
3.25 YES							
L0005920	0	0.16820E-06	485511.6	3755157.4	531.6	3.49	4.00
3.25 YES							
L0005921	0	0.16820E-06	485511.4	3755166.0	531.8	3.49	4.00
3.25 YES							
L0005922	0	0.16820E-06	485511.2	3755174.6	532.0	3.49	4.00
3.25 YES							
L0005923	0	0.16820E-06	485511.0	3755183.2	532.2	3.49	4.00
3.25 YES							
L0005924	0	0.16820E-06	485510.9	3755191.7	532.5	3.49	4.00
3.25 YES							
L0005925	0	0.28070E-06	484782.1	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005926	0	0.28070E-06	484790.7	3755018.5	533.7	3.49	4.00
3.25 YES							
L0005927	0	0.28070E-06	484799.3	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005928	0	0.28070E-06	484807.9	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005929	0	0.28070E-06	484816.5	3755018.6	533.7	3.49	4.00
3.25 YES							
L0005930	0	0.28070E-06	484825.1	3755018.7	533.7	3.49	4.00
3.25 YES							
L0005931	0	0.28070E-06	484833.7	3755018.7	533.7	3.49	4.00
3.25 YES							
L0005932	0	0.28070E-06	484842.3	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005933	0	0.28070E-06	484850.8	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005934	0	0.28070E-06	484859.4	3755018.8	533.8	3.49	4.00
3.25 YES							
L0005935	0	0.28070E-06	484868.0	3755018.9	533.8	3.49	4.00
3.25 YES							
L0005936	0	0.28070E-06	484876.6	3755018.9	533.6	3.49	4.00
3.25 YES							
L0005937	0	0.28070E-06	484885.2	3755019.0	533.4	3.49	4.00
3.25 YES							
L0005938	0	0.28070E-06	484893.8	3755019.0	533.2	3.49	4.00
3.25 YES							
L0005939	0	0.28070E-06	484902.4	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005940	0	0.28070E-06	484911.0	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005941	0	0.28070E-06	484919.6	3755019.1	533.0	3.49	4.00
3.25 YES							
L0005942	0	0.28070E-06	484928.2	3755019.2	533.0	3.49	4.00

```
3.25     YES
 L0005943         0   0.28070E-06  484936.7 3755019.2   532.9     3.49     4.00
3.25     YES
 L0005944         0   0.28070E-06  484945.3 3755019.3   532.9     3.49     4.00
3.25     YES
 L0005945         0   0.28070E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
 L0005946         0   0.28070E-06  484962.5 3755019.4   532.8     3.49     4.00
3.25     YES
 L0005947         0   0.28070E-06  484971.1 3755019.4   532.8     3.49     4.00
3.25     YES
 L0005948         0   0.28070E-06  484979.7 3755019.4   532.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0005949         0   0.28070E-06  484988.3 3755019.5   532.8     3.49     4.00
3.25     YES
 L0005950         0   0.28070E-06  484996.9 3755019.5   532.8     3.49     4.00
3.25     YES
 L0005951         0   0.28070E-06  485005.5 3755019.6   532.8     3.49     4.00
3.25     YES
 L0005952         0   0.28070E-06  485014.1 3755019.6   532.8     3.49     4.00
3.25     YES
 L0005953         0   0.28070E-06  485022.6 3755019.6   532.7     3.49     4.00
3.25     YES
 L0005954         0   0.28070E-06  485031.2 3755019.7   532.4     3.49     4.00
3.25     YES
 L0005955         0   0.28070E-06  485039.8 3755019.7   532.1     3.49     4.00
3.25     YES
 L0005956         0   0.28070E-06  485048.4 3755019.8   531.8     3.49     4.00
3.25     YES
 L0005957         0   0.28070E-06  485057.0 3755019.8   531.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005958	0	0.28070E-06	485065.6	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005959	0	0.28070E-06	485074.2	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005960	0	0.28070E-06	485082.8	3755019.9	531.8	3.49	4.00
3.25 YES							
L0005961	0	0.28070E-06	485091.4	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005962	0	0.28070E-06	485100.0	3755020.0	531.8	3.49	4.00
3.25 YES							
L0005963	0	0.28070E-06	485108.5	3755020.1	531.8	3.49	4.00
3.25 YES							
L0005964	0	0.28070E-06	485117.1	3755020.1	531.6	3.49	4.00
3.25 YES							
L0005965	0	0.28070E-06	485125.7	3755020.1	531.4	3.49	4.00
3.25 YES							
L0005966	0	0.28070E-06	485134.3	3755020.2	531.1	3.49	4.00
3.25 YES							
L0005967	0	0.28070E-06	485142.9	3755020.2	531.0	3.49	4.00
3.25 YES							
L0005968	0	0.28070E-06	485151.5	3755020.3	530.9	3.49	4.00
3.25 YES							
L0005969	0	0.28070E-06	485160.1	3755020.3	530.9	3.49	4.00
3.25 YES							
L0005970	0	0.28070E-06	485168.7	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005971	0	0.28070E-06	485177.3	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005972	0	0.28070E-06	485185.8	3755020.4	530.8	3.49	4.00
3.25 YES							
L0005973	0	0.28070E-06	485194.4	3755020.5	530.8	3.49	4.00
3.25 YES							
L0005974	0	0.28070E-06	485203.0	3755020.5	530.8	3.49	4.00
3.25 YES							
L0005975	0	0.28070E-06	485211.6	3755020.6	530.8	3.49	4.00
3.25 YES							
L0005976	0	0.28070E-06	485220.2	3755020.6	530.8	3.49	4.00
3.25 YES							
L0005977	0	0.28070E-06	485228.8	3755020.7	530.8	3.49	4.00
3.25 YES							
L0005978	0	0.28070E-06	485237.4	3755020.7	530.6	3.49	4.00
3.25 YES							
L0005979	0	0.28070E-06	485246.0	3755020.7	530.4	3.49	4.00
3.25 YES							
L0005980	0	0.28070E-06	485254.6	3755020.8	530.1	3.49	4.00
3.25 YES							
L0005981	0	0.28070E-06	485263.2	3755020.8	530.0	3.49	4.00
3.25 YES							
L0005982	0	0.28070E-06	485271.7	3755020.9	529.9	3.49	4.00

```
3.25     YES
 L0005983         0   0.28070E-06  485280.3 3755020.9   529.9     3.49     4.00
3.25     YES
 L0005984         0   0.28070E-06  485288.9 3755020.9   529.8     3.49     4.00
3.25     YES
 L0005985         0   0.28070E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
 L0005986         0   0.28070E-06  485306.1 3755021.0   529.8     3.49     4.00
3.25     YES
 L0005987         0   0.28070E-06  485314.7 3755021.1   529.8     3.49     4.00
3.25     YES
 L0005988         0   0.28070E-06  485323.3 3755021.1   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 L0005989         0   0.28070E-06  485331.9 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005990         0   0.28070E-06  485340.5 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005991         0   0.28070E-06  485349.1 3755021.2   529.8     3.49     4.00
3.25     YES
 L0005992         0   0.28070E-06  485357.6 3755021.3   529.6     3.49     4.00
3.25     YES
 L0005993         0   0.28070E-06  485366.2 3755021.3   529.4     3.49     4.00
3.25     YES
 L0005994         0   0.28070E-06  485374.8 3755021.4   529.1     3.49     4.00
3.25     YES
 L0005995         0   0.28070E-06  485383.4 3755021.4   529.0     3.49     4.00
3.25     YES
 L0005996         0   0.28070E-06  485392.0 3755021.5   528.9     3.49     4.00
3.25     YES
 L0005997         0   0.28070E-06  485400.6 3755021.5   528.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0005998	0	0.28070E-06	485409.2	3755021.5	528.8	3.49	4.00
3.25 YES							
L0005999	0	0.28070E-06	485417.8	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006000	0	0.28070E-06	485426.4	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006001	0	0.28070E-06	485435.0	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006002	0	0.28070E-06	485443.5	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006003	0	0.28070E-06	485452.1	3755021.7	528.8	3.49	4.00
3.25 YES							
L0006004	0	0.28070E-06	485460.7	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006005	0	0.28070E-06	485469.3	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006006	0	0.28070E-06	485477.9	3755021.9	528.8	3.49	4.00
3.25 YES							
L0006007	0	0.28070E-06	485486.5	3755021.9	528.8	3.49	4.00
3.25 YES							
L0006008	0	0.28070E-06	485495.1	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006009	0	0.28070E-06	485503.7	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006010	0	0.28070E-06	485512.3	3755022.0	528.9	3.49	4.00
3.25 YES							
L0006011	0	0.28070E-06	485514.2	3755028.6	529.0	3.49	4.00
3.25 YES							
L0006012	0	0.28070E-06	485514.0	3755037.2	529.0	3.49	4.00
3.25 YES							
L0006013	0	0.28070E-06	485513.9	3755045.7	529.0	3.49	4.00
3.25 YES							
L0006014	0	0.28070E-06	485513.7	3755054.3	529.0	3.49	4.00
3.25 YES							
L0006015	0	0.28070E-06	485513.5	3755062.9	529.2	3.49	4.00
3.25 YES							
L0006016	0	0.28070E-06	485513.3	3755071.5	529.5	3.49	4.00
3.25 YES							
L0006017	0	0.28070E-06	485513.1	3755080.1	529.8	3.49	4.00
3.25 YES							
L0006018	0	0.28070E-06	485513.0	3755088.7	530.1	3.49	4.00
3.25 YES							
L0006019	0	0.28070E-06	485512.8	3755097.3	530.4	3.49	4.00
3.25 YES							
L0006020	0	0.28070E-06	485512.6	3755105.9	530.6	3.49	4.00
3.25 YES							
L0006021	0	0.28070E-06	485512.4	3755114.5	530.9	3.49	4.00
3.25 YES							
L0006022	0	0.28070E-06	485512.3	3755123.0	531.1	3.49	4.00

```
3.25     YES
 L0006023         0   0.28070E-06  485512.1 3755131.6   531.2     3.49     4.00
3.25     YES
 L0006024         0   0.28070E-06  485511.9 3755140.2   531.3     3.49     4.00
3.25     YES
 L0006025         0   0.28070E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
 L0006026         0   0.28070E-06  485511.6 3755157.4   531.6     3.49     4.00
3.25     YES
 L0006027         0   0.28070E-06  485511.4 3755166.0   531.8     3.49     4.00
3.25     YES
 L0006028         0   0.28070E-06  485511.2 3755174.6   532.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0006029         0   0.28070E-06  485511.0 3755183.2   532.2     3.49     4.00
3.25     YES
 L0006030         0   0.28070E-06  485510.9 3755191.7   532.5     3.49     4.00
3.25     YES
 L0006031         0   0.55700E-07  485406.6 3755019.8   528.8     3.49     4.00
3.25     YES
 L0006032         0   0.55700E-07  485415.2 3755020.0   528.8     3.49     4.00
3.25     YES
 L0006033         0   0.55700E-07  485423.8 3755020.2   528.8     3.49     4.00
3.25     YES
 L0006034         0   0.55700E-07  485432.4 3755020.4   528.8     3.49     4.00
3.25     YES
 L0006035         0   0.55700E-07  485441.0 3755020.5   528.8     3.49     4.00
3.25     YES
 L0006036         0   0.55700E-07  485449.6 3755020.7   528.8     3.49     4.00
3.25     YES
 L0006037         0   0.55700E-07  485458.1 3755020.9   528.8     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006038	0	0.55700E-07	485466.7	3755021.1	528.8	3.49	4.00
3.25 YES							
L0006039	0	0.55700E-07	485475.3	3755021.2	528.8	3.49	4.00
3.25 YES							
L0006040	0	0.55700E-07	485483.9	3755021.4	528.8	3.49	4.00
3.25 YES							
L0006041	0	0.55700E-07	485492.5	3755021.6	528.8	3.49	4.00
3.25 YES							
L0006042	0	0.55700E-07	485501.1	3755021.8	528.8	3.49	4.00
3.25 YES							
L0006043	0	0.55700E-07	485509.7	3755022.0	528.8	3.49	4.00
3.25 YES							
L0006044	0	0.55700E-07	485514.3	3755026.0	529.0	3.49	4.00
3.25 YES							
L0006045	0	0.55700E-07	485514.3	3755034.6	529.0	3.49	4.00
3.25 YES							
L0006046	0	0.55700E-07	485514.2	3755043.2	529.0	3.49	4.00
3.25 YES							
L0006047	0	0.55700E-07	485514.2	3755051.7	529.0	3.49	4.00
3.25 YES							
L0006048	0	0.55700E-07	485514.1	3755060.3	529.1	3.49	4.00
3.25 YES							
L0006049	0	0.55700E-07	485514.1	3755068.9	529.4	3.49	4.00
3.25 YES							
L0006050	0	0.55700E-07	485514.0	3755077.5	529.7	3.49	4.00
3.25 YES							
L0006051	0	0.55700E-07	485514.0	3755086.1	530.0	3.49	4.00
3.25 YES							
L0006052	0	0.55700E-07	485514.0	3755094.7	530.3	3.49	4.00
3.25 YES							
L0006053	0	0.55700E-07	485513.9	3755103.3	530.6	3.49	4.00
3.25 YES							
L0006054	0	0.55700E-07	485513.9	3755111.9	530.8	3.49	4.00
3.25 YES							
L0006055	0	0.55700E-07	485513.8	3755120.5	531.1	3.49	4.00
3.25 YES							
L0006056	0	0.55700E-07	485513.8	3755129.1	531.2	3.49	4.00
3.25 YES							
L0006057	0	0.55700E-07	485513.7	3755137.6	531.3	3.49	4.00
3.25 YES							
L0006058	0	0.55700E-07	485513.7	3755146.2	531.4	3.49	4.00
3.25 YES							
L0006059	0	0.55700E-07	485513.6	3755154.8	531.6	3.49	4.00
3.25 YES							
L0006060	0	0.55700E-07	485513.6	3755163.4	531.8	3.49	4.00
3.25 YES							
L0006061	0	0.55700E-07	485513.6	3755172.0	531.9	3.49	4.00
3.25 YES							
L0006062	0	0.55700E-07	485513.5	3755180.6	532.1	3.49	4.00

```
3.25     YES
 L0006063         0   0.55700E-07  485513.5 3755189.2   532.4     3.49     4.00
3.25     YES
 L0006064         0   0.55700E-07  485513.4 3755197.8   532.7     3.49     4.00
3.25     YES
 L0006065         0   0.55700E-07  485513.4 3755206.4   533.0     3.49     4.00
3.25     YES
 L0006066         0   0.55700E-07  485513.3 3755215.0   533.6     3.49     4.00
3.25     YES
 L0006067         0   0.55700E-07  485513.3 3755223.5   534.1     3.49     4.00
3.25     YES
 L0006068         0   0.55700E-07  485513.3 3755232.1   534.7     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0006069         0   0.55700E-07  485513.2 3755240.7   535.1     3.49     4.00
3.25     YES
 L0006070         0   0.55700E-07  485513.2 3755249.3   535.4     3.49     4.00
3.25     YES
 L0006071         0   0.55700E-07  485513.1 3755257.9   535.7     3.49     4.00
3.25     YES
 L0006072         0   0.55700E-07  485513.1 3755266.5   536.0     3.49     4.00
3.25     YES
 L0006073         0   0.55700E-07  485513.0 3755275.1   536.0     3.49     4.00
3.25     YES
 L0006074         0   0.55700E-07  485513.0 3755283.7   536.0     3.49     4.00
3.25     YES
 L0006075         0   0.55700E-07  485512.9 3755292.3   536.0     3.49     4.00
3.25     YES
 L0006076         0   0.55700E-07  485513.0 3755300.9   536.0     3.49     4.00
3.25     YES
 L0006077         0   0.55700E-07  485513.1 3755309.4   536.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25	YES							
L0006078		0	0.55700E-07	485513.2	3755318.0	536.0	3.49	4.00
3.25	YES							
L0006079		0	0.55700E-07	485513.3	3755326.6	536.0	3.49	4.00
3.25	YES							
L0006080		0	0.55700E-07	485513.4	3755335.2	536.1	3.49	4.00
3.25	YES							
L0006081		0	0.55700E-07	485513.5	3755343.8	536.3	3.49	4.00
3.25	YES							
L0006082		0	0.55700E-07	485513.6	3755352.4	536.4	3.49	4.00
3.25	YES							
L0006083		0	0.55700E-07	485513.7	3755361.0	536.5	3.49	4.00
3.25	YES							
L0006084		0	0.55700E-07	485513.8	3755369.6	536.7	3.49	4.00
3.25	YES							
L0006085		0	0.55700E-07	485513.9	3755378.2	536.8	3.49	4.00
3.25	YES							
L0006086		0	0.55700E-07	485514.0	3755386.7	537.0	3.49	4.00
3.25	YES							
L0006087		0	0.55700E-07	485514.1	3755395.3	537.3	3.49	4.00
3.25	YES							
L0006088		0	0.55700E-07	485514.2	3755403.9	537.6	3.49	4.00
3.25	YES							
L0006089		0	0.55700E-07	485514.3	3755412.5	537.9	3.49	4.00
3.25	YES							
L0006090		0	0.55700E-07	485514.4	3755421.1	538.1	3.49	4.00
3.25	YES							
L0006091		0	0.55700E-07	485514.5	3755429.7	538.2	3.49	4.00
3.25	YES							
L0006092		0	0.55700E-07	485514.6	3755438.3	538.4	3.49	4.00
3.25	YES							
L0006093		0	0.55700E-07	485514.7	3755446.9	538.5	3.49	4.00
3.25	YES							
L0006094		0	0.55700E-07	485514.8	3755455.5	538.7	3.49	4.00
3.25	YES							
L0006095		0	0.55700E-07	485514.9	3755464.1	538.8	3.49	4.00
3.25	YES							
L0006096		0	0.55700E-07	485515.0	3755472.6	538.9	3.49	4.00
3.25	YES							
L0006097		0	0.55700E-07	485515.1	3755481.2	539.2	3.49	4.00
3.25	YES							
L0006098		0	0.55700E-07	485515.2	3755489.8	539.4	3.49	4.00
3.25	YES							
L0006099		0	0.55700E-07	485515.3	3755498.4	539.7	3.49	4.00
3.25	YES							
L0006100		0	0.55700E-07	485515.3	3755507.0	540.0	3.49	4.00
3.25	YES							
L0006101		0	0.55700E-07	485515.4	3755515.6	540.3	3.49	4.00
3.25	YES							
L0006102		0	0.55700E-07	485515.5	3755524.2	540.6	3.49	4.00

```
3.25     YES
 L0006103         0   0.55700E-07  485515.6 3755532.8   540.9     3.49     4.00
3.25     YES
 L0006104         0   0.55700E-07  485515.7 3755541.4   541.0     3.49     4.00
3.25     YES
 L0006105         0   0.55700E-07  485515.8 3755549.9   541.0     3.49     4.00
3.25     YES
 L0006106         0   0.55700E-07  485515.9 3755558.5   541.0     3.49     4.00
3.25     YES
 L0006107         0   0.55700E-07  485516.0 3755567.1   541.0     3.49     4.00
3.25     YES
 L0006108         0   0.55700E-07  485516.1 3755575.7   541.3     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006109         0   0.55700E-07  485516.2 3755584.3   541.6     3.49     4.00
3.25     YES
 L0006110         0   0.55700E-07  485516.3 3755592.9   541.9     3.49     4.00
3.25     YES
 L0006111         0   0.55700E-07  485516.4 3755601.5   542.2     3.49     4.00
3.25     YES
 L0006112         0   0.55700E-07  485516.5 3755610.1   542.5     3.49     4.00
3.25     YES
 L0006113         0   0.55700E-07  485516.6 3755618.7   542.7     3.49     4.00
3.25     YES
 L0006114         0   0.55700E-07  485516.7 3755627.3   543.0     3.49     4.00
3.25     YES
 L0006115         0   0.55700E-07  485516.8 3755635.8   543.3     3.49     4.00
3.25     YES
 L0006116         0   0.55700E-07  485516.9 3755644.4   543.6     3.49     4.00
3.25     YES
 L0006117         0   0.55700E-07  485517.0 3755653.0   543.9     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006118	0	0.55700E-07	485517.1	3755661.6	544.0	3.49	4.00
3.25 YES							
L0006119	0	0.55700E-07	485517.2	3755670.2	544.0	3.49	4.00
3.25 YES							
L0006120	0	0.16660E-06	485512.5	3754719.0	521.8	3.49	4.00
3.25 YES							
L0006121	0	0.16660E-06	485512.5	3754727.6	522.0	3.49	4.00
3.25 YES							
L0006122	0	0.16660E-06	485512.5	3754736.2	522.2	3.49	4.00
3.25 YES							
L0006123	0	0.16660E-06	485512.5	3754744.8	522.4	3.49	4.00
3.25 YES							
L0006124	0	0.16660E-06	485512.5	3754753.4	522.5	3.49	4.00
3.25 YES							
L0006125	0	0.16660E-06	485512.5	3754761.9	522.7	3.49	4.00
3.25 YES							
L0006126	0	0.16660E-06	485512.5	3754770.5	522.8	3.49	4.00
3.25 YES							
L0006127	0	0.16660E-06	485512.5	3754779.1	522.9	3.49	4.00
3.25 YES							
L0006128	0	0.16660E-06	485512.5	3754787.7	523.0	3.49	4.00
3.25 YES							
L0006129	0	0.16660E-06	485512.5	3754796.3	523.3	3.49	4.00
3.25 YES							
L0006130	0	0.16660E-06	485512.5	3754804.9	523.6	3.49	4.00
3.25 YES							
L0006131	0	0.16660E-06	485512.5	3754813.5	523.9	3.49	4.00
3.25 YES							
L0006132	0	0.16660E-06	485512.5	3754822.1	524.2	3.49	4.00
3.25 YES							
L0006133	0	0.16660E-06	485512.5	3754830.7	524.5	3.49	4.00
3.25 YES							
L0006134	0	0.16660E-06	485512.5	3754839.3	524.8	3.49	4.00
3.25 YES							
L0006135	0	0.16660E-06	485512.5	3754847.8	525.0	3.49	4.00
3.25 YES							
L0006136	0	0.16660E-06	485512.5	3754856.4	525.0	3.49	4.00
3.25 YES							
L0006137	0	0.16660E-06	485512.5	3754865.0	525.0	3.49	4.00
3.25 YES							
L0006138	0	0.16660E-06	485512.5	3754873.6	525.0	3.49	4.00
3.25 YES							
L0006139	0	0.16660E-06	485512.5	3754882.2	525.2	3.49	4.00
3.25 YES							
L0006140	0	0.16660E-06	485512.5	3754890.8	525.5	3.49	4.00
3.25 YES							
L0006141	0	0.16660E-06	485512.5	3754899.4	525.8	3.49	4.00
3.25 YES							
L0006142	0	0.16660E-06	485512.5	3754908.0	526.0	3.49	4.00

```
3.25     YES
 L0006143         0   0.16660E-06  485512.5 3754916.6   526.3     3.49     4.00
3.25     YES
 L0006144         0   0.16660E-06  485512.5 3754925.2   526.6     3.49     4.00
3.25     YES
 L0006145         0   0.16660E-06  485512.5 3754933.7   526.9     3.49     4.00
3.25     YES
 L0006146         0   0.16660E-06  485512.5 3754942.3   527.0     3.49     4.00
3.25     YES
 L0006147         0   0.16660E-06  485512.5 3754950.9   527.0     3.49     4.00
3.25     YES
 L0006148         0   0.16660E-06  485512.5 3754959.5   527.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006149         0   0.16660E-06  485512.5 3754968.1   527.1     3.49     4.00
3.25     YES
 L0006150         0   0.16660E-06  485512.5 3754976.7   527.3     3.49     4.00
3.25     YES
 L0006151         0   0.16660E-06  485512.5 3754985.3   527.6     3.49     4.00
3.25     YES
 L0006152         0   0.16660E-06  485512.5 3754993.9   527.9     3.49     4.00
3.25     YES
 L0006153         0   0.16660E-06  485512.5 3755002.5   528.2     3.49     4.00
3.25     YES
 L0006154         0   0.16660E-06  485512.5 3755011.1   528.5     3.49     4.00
3.25     YES
 L0006155         0   0.16660E-06  485512.5 3755019.6   528.8     3.49     4.00
3.25     YES
 L0006156         0   0.16660E-06  485512.5 3755028.2   529.0     3.49     4.00
3.25     YES
 L0006157         0   0.16660E-06  485512.5 3755036.8   529.0     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25	YES							
L0006158		0	0.16660E-06	485512.5	3755045.4	529.0	3.49	4.00
3.25	YES							
L0006159		0	0.16660E-06	485512.5	3755054.0	529.0	3.49	4.00
3.25	YES							
L0006160		0	0.16660E-06	485512.5	3755062.6	529.2	3.49	4.00
3.25	YES							
L0006161		0	0.16660E-06	485512.5	3755071.2	529.5	3.49	4.00
3.25	YES							
L0006162		0	0.16660E-06	485512.5	3755079.8	529.8	3.49	4.00
3.25	YES							
L0006163		0	0.16660E-06	485512.5	3755088.4	530.1	3.49	4.00
3.25	YES							
L0006164		0	0.16660E-06	485512.5	3755097.0	530.3	3.49	4.00
3.25	YES							
L0006165		0	0.16660E-06	485512.5	3755105.5	530.6	3.49	4.00
3.25	YES							
L0006166		0	0.16660E-06	485512.5	3755114.1	530.9	3.49	4.00
3.25	YES							
L0006167		0	0.16660E-06	485512.5	3755122.7	531.1	3.49	4.00
3.25	YES							
L0006168		0	0.16660E-06	485512.5	3755131.3	531.2	3.49	4.00
3.25	YES							
L0006169		0	0.16660E-06	485512.5	3755139.9	531.3	3.49	4.00
3.25	YES							
L0006170		0	0.16660E-06	485512.5	3755148.5	531.4	3.49	4.00
3.25	YES							
L0006171		0	0.16660E-06	485512.5	3755157.1	531.6	3.49	4.00
3.25	YES							
L0006172		0	0.16660E-06	485512.5	3755165.7	531.8	3.49	4.00
3.25	YES							
L0006173		0	0.16660E-06	485512.5	3755174.3	532.0	3.49	4.00
3.25	YES							
L0006174		0	0.16660E-06	485512.5	3755182.9	532.2	3.49	4.00
3.25	YES							
L0006175		0	0.16660E-06	485512.5	3755191.4	532.5	3.49	4.00
3.25	YES							
L0006176		0	0.55330E-07	485510.9	3755208.0	533.1	3.49	4.00
3.25	YES							
L0006177		0	0.55330E-07	485511.0	3755216.6	533.7	3.49	4.00
3.25	YES							
L0006178		0	0.55330E-07	485511.1	3755225.2	534.2	3.49	4.00
3.25	YES							
L0006179		0	0.55330E-07	485511.2	3755233.8	534.8	3.49	4.00
3.25	YES							
L0006180		0	0.55330E-07	485511.3	3755242.4	535.2	3.49	4.00
3.25	YES							
L0006181		0	0.55330E-07	485511.4	3755250.9	535.5	3.49	4.00
3.25	YES							
L0006182		0	0.55330E-07	485511.5	3755259.5	535.8	3.49	4.00

```
3.25     YES
 L0006183         0   0.55330E-07  485511.6 3755268.1   536.0     3.49     4.00
3.25     YES
 L0006184         0   0.55330E-07  485511.7 3755276.7   536.0     3.49     4.00
3.25     YES
 L0006185         0   0.55330E-07  485511.8 3755285.3   536.0     3.49     4.00
3.25     YES
 L0006186         0   0.55330E-07  485511.9 3755293.9   536.0     3.49     4.00
3.25     YES
 L0006187         0   0.55330E-07  485512.0 3755302.5   536.0     3.49     4.00
3.25     YES
 L0006188         0   0.55330E-07  485512.1 3755311.1   536.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006189         0   0.55330E-07  485512.2 3755319.7   536.0     3.49     4.00
3.25     YES
 L0006190         0   0.55330E-07  485512.3 3755328.2   536.0     3.49     4.00
3.25     YES
 L0006191         0   0.55330E-07  485512.4 3755336.8   536.1     3.49     4.00
3.25     YES
 L0006192         0   0.55330E-07  485512.5 3755345.4   536.3     3.49     4.00
3.25     YES
 L0006193         0   0.55330E-07  485512.6 3755354.0   536.4     3.49     4.00
3.25     YES
 L0006194         0   0.55330E-07  485512.7 3755362.6   536.5     3.49     4.00
3.25     YES
 L0006195         0   0.55330E-07  485512.8 3755371.2   536.7     3.49     4.00
3.25     YES
 L0006196         0   0.55330E-07  485512.9 3755379.8   536.9     3.49     4.00
3.25     YES
 L0006197         0   0.55330E-07  485513.1 3755388.4   537.1     3.49     4.00
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

3.25 YES							
L0006198	0	0.55330E-07	485513.2	3755397.0	537.3	3.49	4.00
3.25 YES							
L0006199	0	0.55330E-07	485513.3	3755405.6	537.6	3.49	4.00
3.25 YES							
L0006200	0	0.55330E-07	485513.4	3755414.1	537.9	3.49	4.00
3.25 YES							
L0006201	0	0.55330E-07	485513.5	3755422.7	538.1	3.49	4.00
3.25 YES							
L0006202	0	0.55330E-07	485513.6	3755431.3	538.3	3.49	4.00
3.25 YES							
L0006203	0	0.55330E-07	485513.7	3755439.9	538.4	3.49	4.00
3.25 YES							
L0006204	0	0.55330E-07	485513.8	3755448.5	538.6	3.49	4.00
3.25 YES							
L0006205	0	0.55330E-07	485513.9	3755457.1	538.7	3.49	4.00
3.25 YES							
L0006206	0	0.55330E-07	485514.0	3755465.7	538.8	3.49	4.00
3.25 YES							
L0006207	0	0.55330E-07	485514.1	3755474.3	539.0	3.49	4.00
3.25 YES							
L0006208	0	0.55330E-07	485514.2	3755482.9	539.2	3.49	4.00
3.25 YES							
L0006209	0	0.55330E-07	485514.3	3755491.4	539.5	3.49	4.00
3.25 YES							
L0006210	0	0.55330E-07	485514.4	3755500.0	539.8	3.49	4.00
3.25 YES							
L0006211	0	0.55330E-07	485514.5	3755508.6	540.1	3.49	4.00
3.25 YES							
L0006212	0	0.55330E-07	485514.6	3755517.2	540.4	3.49	4.00
3.25 YES							
L0006213	0	0.55330E-07	485514.7	3755525.8	540.6	3.49	4.00
3.25 YES							
L0006214	0	0.55330E-07	485514.8	3755534.4	540.9	3.49	4.00
3.25 YES							
L0006215	0	0.55330E-07	485514.9	3755543.0	541.0	3.49	4.00
3.25 YES							
L0006216	0	0.55330E-07	485515.0	3755551.6	541.0	3.49	4.00
3.25 YES							
L0006217	0	0.55330E-07	485515.1	3755560.2	541.0	3.49	4.00
3.25 YES							
L0006218	0	0.55330E-07	485515.2	3755568.8	541.1	3.49	4.00
3.25 YES							
L0006219	0	0.55330E-07	485515.3	3755577.3	541.4	3.49	4.00
3.25 YES							
L0006220	0	0.55330E-07	485515.4	3755585.9	541.6	3.49	4.00
3.25 YES							
L0006221	0	0.55330E-07	485515.5	3755594.5	541.9	3.49	4.00
3.25 YES							
L0006222	0	0.55330E-07	485515.6	3755603.1	542.2	3.49	4.00

```
3.25     YES
 L0006223         0   0.55330E-07  485515.7 3755611.7   542.5     3.49     4.00
3.25     YES
 L0006224         0   0.55330E-07  485515.8 3755620.3   542.8     3.49     4.00
3.25     YES
 L0006225         0   0.55330E-07  485515.9 3755628.9   543.1     3.49     4.00
3.25     YES
 L0006226         0   0.55330E-07  485516.0 3755637.5   543.4     3.49     4.00
3.25     YES
 L0006227         0   0.55330E-07  485516.1 3755646.1   543.7     3.49     4.00
3.25     YES
 L0006228         0   0.55330E-07  485516.2 3755654.6   543.9     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 L0006229         0   0.55330E-07  485516.3 3755663.2   544.0     3.49     4.00
3.25     YES
 L0006230         0   0.55330E-07  485516.4 3755671.8   544.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                              *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

---

ALL L0005309 , L0005310 , L0005311 , L0005312 , L0005313 , L0005314 , L0005315 , L0005316 ,

L0005317 , L0005318 , L0005319 , L0005320 , L0005321 , L0005322 , L0005323 , L0005324 ,

L0005325 , L0005326 , L0005327 , L0005328 , L0005329 , L0005330 , L0005331 , L0005332 ,

L0005333 , L0005334 , L0005335 , L0005336 , L0005337 , L0005338 , L0005339 , L0005340 ,

L0005341 , L0005342 , L0005343 , L0005344 , L0005345 , L0005346 , L0005347 , L0005348 ,

L0005349 , L0005350 , L0005351 , L0005352 , L0005353 , L0005354 , L0005355 , L0005356 ,

L0005357 , L0005358 , L0005359 , L0005360 , L0005361 , L0005362 , L0005363 , L0005364 ,

L0005365 , L0005366 , L0005367 , L0005368 , L0005369 , L0005370 , L0005371 , L0005372 ,

L0005373 , L0005374 , L0005375 , L0005376 , L0005377 , L0005378 , L0005379 , L0005380 ,

L0005381 , L0005382 , L0005383 , L0005384 , L0005385 , L0005386 , L0005387 , L0005388 ,

L0005389 , L0005390 , L0005391 , L0005392 , L0005393 , L0005394 , L0005395 , L0005396 ,

L0005397 , L0005398 , L0005399 , L0005400 , L0005401 , L0005402 , L0005403 , L0005404 ,

L0005405 , L0005406 , L0005407 , L0005408 , L0005409 , L0005410 , L0005411 , L0005412 ,

L0005413 , L0005414 , L0005415 , L0005416 , L0005417 , L0005418 , L0005419 , L0005420 ,

L0005421 , L0005422 , L0005423 , L0005424 , L0005425 , L0005426 , L0005427 , L0005428 ,

L0005429 , L0005430 , L0005431 , L0005432 , L0005433 , L0005434 , L0005435 , L0005436 ,

```
             L0005437    , L0005438    , L0005439    , L0005440    , L0005441    ,
L0005442    , L0005443    , L0005444    ,

             L0005445    , L0005446    , L0005447    , L0005448    , L0005449    ,
L0005450    , L0005451    , L0005452    ,

             L0005453    , L0005454    , L0005455    , L0005456    , L0005457    ,
L0005458    , L0005459    , L0005460    ,

             L0005461    , L0005462    , L0005463    , L0005464    , L0005465    ,
L0005466    , L0005467    , L0005468    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


             L0005469    , L0005470    , L0005471    , L0005472    , L0005473    ,
L0005474    , L0005475    , L0005476    ,

             L0005477    , L0005478    , L0005479    , L0005480    , L0005481    ,
L0005482    , L0005483    , L0005484    ,

             L0005485    , L0005486    , L0005487    , L0005488    , L0005489    ,
L0005490    , L0005491    , L0005492    ,

             L0005493    , L0005494    , L0005495    , L0005496    , L0005497    ,
L0005498    , L0005499    , L0005500    ,

             L0005501    , L0005502    , L0005503    , L0005504    , L0005505    ,
L0005506    , L0005507    , L0005508    ,

             L0005509    , L0005510    , L0005511    , L0005512    , L0005513    ,
L0005514    , L0005515    , L0005516    ,

             L0005517    , L0005518    , L0005519    , L0005520    , L0005521    ,
L0005522    , L0005523    , L0005524    ,

             L0005525    , L0005526    , L0005527    , L0005528    , L0005529    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
L0005530    , L0005531    , L0005532    ,

             L0005533    , L0005534    , L0005535    , L0005536    , L0005537    ,
L0005538    , L0005539    , L0005540    ,

             L0005541    , L0005542    , L0005543    , L0005544    , L0005545    ,
L0005546    , L0005547    , L0005548    ,

             L0005549    , L0005550    , L0005551    , L0005552    , L0005553    ,
L0005554    , L0005555    , L0005556    ,

             L0005557    , L0005558    , L0005559    , L0005560    , L0005561    ,
L0005562    , L0005563    , L0005564    ,

             L0005565    , L0005566    , L0005567    , L0005568    , L0005569    ,
L0005570    , L0005571    , L0005572    ,

             L0005573    , L0005574    , L0005575    , L0005576    , L0005577    ,
L0005578    , L0005579    , L0005580    ,

             L0005581    , L0005582    , L0005583    , L0005584    , L0005585    ,
L0005586    , L0005587    , L0005588    ,

             L0005589    , L0005590    , L0005591    , L0005592    , L0005593    ,
L0005594    , L0005595    , L0005596    ,

             L0005597    , L0005598    , L0005599    , L0005600    , L0005601    ,
L0005602    , L0005603    , L0005604    ,

             L0005605    , L0005606    , L0005607    , L0005608    , L0005609    ,
L0005610    , L0005611    , L0005612    ,

             L0005613    , L0005614    , L0005615    , L0005616    , L0005617    ,
L0005618    , L0005619    , L0005620    ,

             L0005621    , L0005622    , L0005623    , L0005624    , L0005625    ,
L0005626    , L0005627    , L0005628    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       11:18:08

                                   PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

---

L0005629 , L0005630 , L0005631 , L0005632 , L0005633 , L0005634 , L0005635 , L0005636 ,

L0005637 , L0005638 , L0005639 , L0005640 , L0005641 , L0005642 , L0005643 , L0005644 ,

L0005645 , L0005646 , L0005647 , L0005648 , L0005649 , L0005650 , L0005651 , L0005652 ,

L0005653 , L0005654 , L0005655 , L0005656 , L0005657 , L0005658 , L0005659 , L0005660 ,

L0005661 , L0005662 , L0005663 , L0005664 , L0005665 , L0005666 , L0005667 , L0005668 ,

L0005669 , L0005670 , L0005671 , L0005672 , L0005673 , L0005674 , L0005675 , L0005676 ,

L0005677 , L0005678 , L0005679 , L0005680 , L0005681 , L0005682 , L0005683 , L0005684 ,

L0005685 , L0005686 , L0005687 , L0005688 , L0005689 , L0005690 , L0005691 , L0005692 ,

L0005693 , L0005694 , L0005695 , L0005696 , L0005697 , L0005698 , L0005699 , L0005700 ,

L0005701 , L0005702 , L0005703 , L0005704 , L0005705 , L0005706 , L0005707 , L0005708 ,

L0005709 , L0005710 , L0005711 , L0005712 , L0005713 , L0005714 , L0005715 , L0005716 ,

L0005717 , L0005718 , L0005719 , L0005720 , L0005721 , L0005722 , L0005723 , L0005724 ,

L0005725 , L0005726 , L0005727 , L0005728 , L0005729 , L0005730 , L0005731 , L0005732 ,

L0005733 , L0005734 , L0005735 , L0005736 , L0005737 , L0005738 , L0005739 , L0005740 ,

L0005741 , L0005742 , L0005743 , L0005744 , L0005745 , L0005746 , L0005747 , L0005748 ,

L0005749 , L0005750 , L0005751 , L0005752 , L0005753 , L0005754 , L0005755 , L0005756 ,

```
             L0005757    , L0005758    , L0005759    , L0005760    , L0005761    ,
L0005762    , L0005763    , L0005764    ,

             L0005765    , L0005766    , L0005767    , L0005768    , L0005769    ,
L0005770    , L0005771    , L0005772    ,

             L0005773    , L0005774    , L0005775    , L0005776    , L0005777    ,
L0005778    , L0005779    , L0005780    ,

             L0005781    , L0005782    , L0005783    , L0005784    , L0005785    ,
L0005786    , L0005787    , L0005788    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


             L0005789    , L0005790    , L0005791    , L0005792    , L0005793    ,
L0005794    , L0005795    , L0005796    ,

             L0005797    , L0005798    , L0005799    , L0005800    , L0005801    ,
L0005802    , L0005803    , L0005804    ,

             L0005805    , L0005806    , L0005807    , L0005808    , L0005809    ,
L0005810    , L0005811    , L0005812    ,

             L0005813    , L0005814    , L0005815    , L0005816    , L0005817    ,
L0005818    , L0005819    , L0005820    ,

             L0005821    , L0005822    , L0005823    , L0005824    , L0005825    ,
L0005826    , L0005827    , L0005828    ,

             L0005829    , L0005830    , L0005831    , L0005832    , L0005833    ,
L0005834    , L0005835    , L0005836    ,

             L0005837    , L0005838    , L0005839    , L0005840    , L0005841    ,
L0005842    , L0005843    , L0005844    ,

             L0005845    , L0005846    , L0005847    , L0005848    , L0005849    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
L0005850    , L0005851    , L0005852    ,

             L0005853    , L0005854    , L0005855    , L0005856    , L0005857    ,
L0005858    , L0005859    , L0005860    ,

             L0005861    , L0005862    , L0005863    , L0005864    , L0005865    ,
L0005866    , L0005867    , L0005868    ,

             L0005869    , L0005870    , L0005871    , L0005872    , L0005873    ,
L0005874    , L0005875    , L0005876    ,

             L0005877    , L0005878    , L0005879    , L0005880    , L0005881    ,
L0005882    , L0005883    , L0005884    ,

             L0005885    , L0005886    , L0005887    , L0005888    , L0005889    ,
L0005890    , L0005891    , L0005892    ,

             L0005893    , L0005894    , L0005895    , L0005896    , L0005897    ,
L0005898    , L0005899    , L0005900    ,

             L0005901    , L0005902    , L0005903    , L0005904    , L0005905    ,
L0005906    , L0005907    , L0005908    ,

             L0005909    , L0005910    , L0005911    , L0005912    , L0005913    ,
L0005914    , L0005915    , L0005916    ,

             L0005917    , L0005918    , L0005919    , L0005920    , L0005921    ,
L0005922    , L0005923    , L0005924    ,

             L0005925    , L0005926    , L0005927    , L0005928    , L0005929    ,
L0005930    , L0005931    , L0005932    ,

             L0005933    , L0005934    , L0005935    , L0005936    , L0005937    ,
L0005938    , L0005939    , L0005940    ,

             L0005941    , L0005942    , L0005943    , L0005944    , L0005945    ,
L0005946    , L0005947    , L0005948    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                   PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

---

L0005949 , L0005950 , L0005951 , L0005952 , L0005953 , L0005954 , L0005955 , L0005956 ,

L0005957 , L0005958 , L0005959 , L0005960 , L0005961 , L0005962 , L0005963 , L0005964 ,

L0005965 , L0005966 , L0005967 , L0005968 , L0005969 , L0005970 , L0005971 , L0005972 ,

L0005973 , L0005974 , L0005975 , L0005976 , L0005977 , L0005978 , L0005979 , L0005980 ,

L0005981 , L0005982 , L0005983 , L0005984 , L0005985 , L0005986 , L0005987 , L0005988 ,

L0005989 , L0005990 , L0005991 , L0005992 , L0005993 , L0005994 , L0005995 , L0005996 ,

L0005997 , L0005998 , L0005999 , L0006000 , L0006001 , L0006002 , L0006003 , L0006004 ,

L0006005 , L0006006 , L0006007 , L0006008 , L0006009 , L0006010 , L0006011 , L0006012 ,

L0006013 , L0006014 , L0006015 , L0006016 , L0006017 , L0006018 , L0006019 , L0006020 ,

L0006021 , L0006022 , L0006023 , L0006024 , L0006025 , L0006026 , L0006027 , L0006028 ,

L0006029 , L0006030 , L0006031 , L0006032 , L0006033 , L0006034 , L0006035 , L0006036 ,

L0006037 , L0006038 , L0006039 , L0006040 , L0006041 , L0006042 , L0006043 , L0006044 ,

L0006045 , L0006046 , L0006047 , L0006048 , L0006049 , L0006050 , L0006051 , L0006052 ,

L0006053 , L0006054 , L0006055 , L0006056 , L0006057 , L0006058 , L0006059 , L0006060 ,

L0006061 , L0006062 , L0006063 , L0006064 , L0006065 , L0006066 , L0006067 , L0006068 ,

L0006069 , L0006070 , L0006071 , L0006072 , L0006073 , L0006074 , L0006075 , L0006076 ,

```
             L0006077    , L0006078    , L0006079    , L0006080    , L0006081    ,
L0006082    , L0006083    , L0006084    ,

             L0006085    , L0006086    , L0006087    , L0006088    , L0006089    ,
L0006090    , L0006091    , L0006092    ,

             L0006093    , L0006094    , L0006095    , L0006096    , L0006097    ,
L0006098    , L0006099    , L0006100    ,

             L0006101    , L0006102    , L0006103    , L0006104    , L0006105    ,
L0006106    , L0006107    , L0006108    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


             L0006109    , L0006110    , L0006111    , L0006112    , L0006113    ,
L0006114    , L0006115    , L0006116    ,

             L0006117    , L0006118    , L0006119    , L0006120    , L0006121    ,
L0006122    , L0006123    , L0006124    ,

             L0006125    , L0006126    , L0006127    , L0006128    , L0006129    ,
L0006130    , L0006131    , L0006132    ,

             L0006133    , L0006134    , L0006135    , L0006136    , L0006137    ,
L0006138    , L0006139    , L0006140    ,

             L0006141    , L0006142    , L0006143    , L0006144    , L0006145    ,
L0006146    , L0006147    , L0006148    ,

             L0006149    , L0006150    , L0006151    , L0006152    , L0006153    ,
L0006154    , L0006155    , L0006156    ,

             L0006157    , L0006158    , L0006159    , L0006160    , L0006161    ,
L0006162    , L0006163    , L0006164    ,

             L0006165    , L0006166    , L0006167    , L0006168    , L0006169    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0006170 , L0006171 , L0006172 ,

L0006173 , L0006174 , L0006175 , L0006176 , L0006177 ,
L0006178 , L0006179 , L0006180 ,

L0006181 , L0006182 , L0006183 , L0006184 , L0006185 ,
L0006186 , L0006187 , L0006188 ,

L0006189 , L0006190 , L0006191 , L0006192 , L0006193 ,
L0006194 , L0006195 , L0006196 ,

L0006197 , L0006198 , L0006199 , L0006200 , L0006201 ,
L0006202 , L0006203 , L0006204 ,

L0006205 , L0006206 , L0006207 , L0006208 , L0006209 ,
L0006210 , L0006211 , L0006212 ,

L0006213 , L0006214 , L0006215 , L0006216 , L0006217 ,
L0006218 , L0006219 , L0006220 ,

L0006221 , L0006222 , L0006223 , L0006224 , L0006225 ,
L0006226 , L0006227 , L0006228 ,

L0006229 , L0006230 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2189641.	L0005309 , L0005310 , L0005311 , L0005312 , L0005313 , L0005314 , L0005315 , L0005316 ,
		L0005317 , L0005318 , L0005319 , L0005320 , L0005321 , L0005322 , L0005323 , L0005324 ,
		L0005325 , L0005326 , L0005327 , L0005328 , L0005329 , L0005330 , L0005331 , L0005332 ,

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0005333 , L0005334 , L0005335 , L0005336 , L0005337 ,
L0005338 , L0005339 , L0005340 ,

L0005341 , L0005342 , L0005343 , L0005344 , L0005345 ,
L0005346 , L0005347 , L0005348 ,

L0005349 , L0005350 , L0005351 , L0005352 , L0005353 ,
L0005354 , L0005355 , L0005356 ,

L0005357 , L0005358 , L0005359 , L0005360 , L0005361 ,
L0005362 , L0005363 , L0005364 ,

L0005365 , L0005366 , L0005367 , L0005368 , L0005369 ,
L0005370 , L0005371 , L0005372 ,

L0005373 , L0005374 , L0005375 , L0005376 , L0005377 ,
L0005378 , L0005379 , L0005380 ,

L0005381 , L0005382 , L0005383 , L0005384 , L0005385 ,
L0005386 , L0005387 , L0005388 ,

L0005389 , L0005390 , L0005391 , L0005392 , L0005393 ,
L0005394 , L0005395 , L0005396 ,

L0005397 , L0005398 , L0005399 , L0005400 , L0005401 ,
L0005402 , L0005403 , L0005404 ,

L0005405 , L0005406 , L0005407 , L0005408 , L0005409 ,
L0005410 , L0005411 , L0005412 ,

L0005413 , L0005414 , L0005415 , L0005416 , L0005417 ,
L0005418 , L0005419 , L0005420 ,

L0005421 , L0005422 , L0005423 , L0005424 , L0005425 ,
L0005426 , L0005427 , L0005428 ,

L0005429 , L0005430 , L0005431 , L0005432 , L0005433 ,
L0005434 , L0005435 , L0005436 ,

L0005437 , L0005438 , L0005439 , L0005440 , L0005441 ,
L0005442 , L0005443 , L0005444 ,

L0005445 , L0005446 , L0005447 , L0005448 , L0005449 ,
L0005450 , L0005451 , L0005452 ,

L0005453 , L0005454 , L0005455 , L0005456 , L0005457 ,
L0005458 , L0005459 , L0005460 ,

L0005461 , L0005462 , L0005463 , L0005464 , L0005465 ,
L0005466 , L0005467 , L0005468 ,

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                   PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


             L0005469    , L0005470    , L0005471    , L0005472    , L0005473    ,
L0005474    , L0005475    , L0005476    ,

             L0005477    , L0005478    , L0005479    , L0005480    , L0005481    ,
L0005482    , L0005483    , L0005484    ,

             L0005485    , L0005486    , L0005487    , L0005488    , L0005489    ,
L0005490    , L0005491    , L0005492    ,

             L0005493    , L0005494    , L0005495    , L0005496    , L0005497    ,
L0005498    , L0005499    , L0005500    ,

             L0005501    , L0005502    , L0005503    , L0005504    , L0005505    ,
L0005506    , L0005507    , L0005508    ,

             L0005509    , L0005510    , L0005511    , L0005512    , L0005513    ,
L0005514    , L0005515    , L0005516    ,

             L0005517    , L0005518    , L0005519    , L0005520    , L0005521    ,
L0005522    , L0005523    , L0005524    ,

             L0005525    , L0005526    , L0005527    , L0005528    , L0005529    ,
L0005530    , L0005531    , L0005532    ,

             L0005533    , L0005534    , L0005535    , L0005536    , L0005537    ,
L0005538    , L0005539    , L0005540    ,

             L0005541    , L0005542    , L0005543    , L0005544    , L0005545    ,
L0005546    , L0005547    , L0005548    ,

             L0005549    , L0005550    , L0005551    , L0005552    , L0005553    ,
L0005554    , L0005555    , L0005556    ,

             L0005557    , L0005558    , L0005559    , L0005560    , L0005561    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
L0005562    , L0005563    , L0005564    ,

             L0005565    , L0005566    , L0005567    , L0005568    , L0005569    ,
L0005570    , L0005571    , L0005572    ,

             L0005573    , L0005574    , L0005575    , L0005576    , L0005577    ,
L0005578    , L0005579    , L0005580    ,

             L0005581    , L0005582    , L0005583    , L0005584    , L0005585    ,
L0005586    , L0005587    , L0005588    ,

             L0005589    , L0005590    , L0005591    , L0005592    , L0005593    ,
L0005594    , L0005595    , L0005596    ,

             L0005597    , L0005598    , L0005599    , L0005600    , L0005601    ,
L0005602    , L0005603    , L0005604    ,

             L0005605    , L0005606    , L0005607    , L0005608    , L0005609    ,
L0005610    , L0005611    , L0005612    ,

             L0005613    , L0005614    , L0005615    , L0005616    , L0005617    ,
L0005618    , L0005619    , L0005620    ,

             L0005621    , L0005622    , L0005623    , L0005624    , L0005625    ,
L0005626    , L0005627    , L0005628    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


             L0005629    , L0005630    , L0005631    , L0005632    , L0005633    ,
L0005634    , L0005635    , L0005636    ,

             L0005637    , L0005638    , L0005639    , L0005640    , L0005641    ,
L0005642    , L0005643    , L0005644    ,

             L0005645    , L0005646    , L0005647    , L0005648    , L0005649    ,
L0005650    , L0005651    , L0005652    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0005653 , L0005654 , L0005655 , L0005656 , L0005657 ,
L0005658 , L0005659 , L0005660 ,

L0005661 , L0005662 , L0005663 , L0005664 , L0005665 ,
L0005666 , L0005667 , L0005668 ,

L0005669 , L0005670 , L0005671 , L0005672 , L0005673 ,
L0005674 , L0005675 , L0005676 ,

L0005677 , L0005678 , L0005679 , L0005680 , L0005681 ,
L0005682 , L0005683 , L0005684 ,

L0005685 , L0005686 , L0005687 , L0005688 , L0005689 ,
L0005690 , L0005691 , L0005692 ,

L0005693 , L0005694 , L0005695 , L0005696 , L0005697 ,
L0005698 , L0005699 , L0005700 ,

L0005701 , L0005702 , L0005703 , L0005704 , L0005705 ,
L0005706 , L0005707 , L0005708 ,

L0005709 , L0005710 , L0005711 , L0005712 , L0005713 ,
L0005714 , L0005715 , L0005716 ,

L0005717 , L0005718 , L0005719 , L0005720 , L0005721 ,
L0005722 , L0005723 , L0005724 ,

L0005725 , L0005726 , L0005727 , L0005728 , L0005729 ,
L0005730 , L0005731 , L0005732 ,

L0005733 , L0005734 , L0005735 , L0005736 , L0005737 ,
L0005738 , L0005739 , L0005740 ,

L0005741 , L0005742 , L0005743 , L0005744 , L0005745 ,
L0005746 , L0005747 , L0005748 ,

L0005749 , L0005750 , L0005751 , L0005752 , L0005753 ,
L0005754 , L0005755 , L0005756 ,

L0005757 , L0005758 , L0005759 , L0005760 , L0005761 ,
L0005762 , L0005763 , L0005764 ,

L0005765 , L0005766 , L0005767 , L0005768 , L0005769 ,
L0005770 , L0005771 , L0005772 ,

L0005773 , L0005774 , L0005775 , L0005776 , L0005777 ,
L0005778 , L0005779 , L0005780 ,

L0005781 , L0005782 , L0005783 , L0005784 , L0005785 ,
L0005786 , L0005787 , L0005788 ,

```
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


             L0005789    , L0005790    , L0005791    , L0005792    , L0005793    ,
L0005794    , L0005795    , L0005796    ,

             L0005797    , L0005798    , L0005799    , L0005800    , L0005801    ,
L0005802    , L0005803    , L0005804    ,

             L0005805    , L0005806    , L0005807    , L0005808    , L0005809    ,
L0005810    , L0005811    , L0005812    ,

             L0005813    , L0005814    , L0005815    , L0005816    , L0005817    ,
L0005818    , L0005819    , L0005820    ,

             L0005821    , L0005822    , L0005823    , L0005824    , L0005825    ,
L0005826    , L0005827    , L0005828    ,

             L0005829    , L0005830    , L0005831    , L0005832    , L0005833    ,
L0005834    , L0005835    , L0005836    ,

             L0005837    , L0005838    , L0005839    , L0005840    , L0005841    ,
L0005842    , L0005843    , L0005844    ,

             L0005845    , L0005846    , L0005847    , L0005848    , L0005849    ,
L0005850    , L0005851    , L0005852    ,

             L0005853    , L0005854    , L0005855    , L0005856    , L0005857    ,
L0005858    , L0005859    , L0005860    ,

             L0005861    , L0005862    , L0005863    , L0005864    , L0005865    ,
L0005866    , L0005867    , L0005868    ,

             L0005869    , L0005870    , L0005871    , L0005872    , L0005873    ,
L0005874    , L0005875    , L0005876    ,

             L0005877    , L0005878    , L0005879    , L0005880    , L0005881    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
L0005882    , L0005883    , L0005884    ,

             L0005885    , L0005886    , L0005887    , L0005888    , L0005889    ,
L0005890    , L0005891    , L0005892    ,

             L0005893    , L0005894    , L0005895    , L0005896    , L0005897    ,
L0005898    , L0005899    , L0005900    ,

             L0005901    , L0005902    , L0005903    , L0005904    , L0005905    ,
L0005906    , L0005907    , L0005908    ,

             L0005909    , L0005910    , L0005911    , L0005912    , L0005913    ,
L0005914    , L0005915    , L0005916    ,

             L0005917    , L0005918    , L0005919    , L0005920    , L0005921    ,
L0005922    , L0005923    , L0005924    ,

             L0005925    , L0005926    , L0005927    , L0005928    , L0005929    ,
L0005930    , L0005931    , L0005932    ,

             L0005933    , L0005934    , L0005935    , L0005936    , L0005937    ,
L0005938    , L0005939    , L0005940    ,

             L0005941    , L0005942    , L0005943    , L0005944    , L0005945    ,
L0005946    , L0005947    , L0005948    ,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        11:18:08

                                    PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


             L0005949    , L0005950    , L0005951    , L0005952    , L0005953    ,
L0005954    , L0005955    , L0005956    ,

             L0005957    , L0005958    , L0005959    , L0005960    , L0005961    ,
L0005962    , L0005963    , L0005964    ,

             L0005965    , L0005966    , L0005967    , L0005968    , L0005969    ,
L0005970    , L0005971    , L0005972    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0005973 , L0005974 , L0005975 , L0005976 , L0005977 ,
L0005978 , L0005979 , L0005980 ,

L0005981 , L0005982 , L0005983 , L0005984 , L0005985 ,
L0005986 , L0005987 , L0005988 ,

L0005989 , L0005990 , L0005991 , L0005992 , L0005993 ,
L0005994 , L0005995 , L0005996 ,

L0005997 , L0005998 , L0005999 , L0006000 , L0006001 ,
L0006002 , L0006003 , L0006004 ,

L0006005 , L0006006 , L0006007 , L0006008 , L0006009 ,
L0006010 , L0006011 , L0006012 ,

L0006013 , L0006014 , L0006015 , L0006016 , L0006017 ,
L0006018 , L0006019 , L0006020 ,

L0006021 , L0006022 , L0006023 , L0006024 , L0006025 ,
L0006026 , L0006027 , L0006028 ,

L0006029 , L0006030 , L0006031 , L0006032 , L0006033 ,
L0006034 , L0006035 , L0006036 ,

L0006037 , L0006038 , L0006039 , L0006040 , L0006041 ,
L0006042 , L0006043 , L0006044 ,

L0006045 , L0006046 , L0006047 , L0006048 , L0006049 ,
L0006050 , L0006051 , L0006052 ,

L0006053 , L0006054 , L0006055 , L0006056 , L0006057 ,
L0006058 , L0006059 , L0006060 ,

L0006061 , L0006062 , L0006063 , L0006064 , L0006065 ,
L0006066 , L0006067 , L0006068 ,

L0006069 , L0006070 , L0006071 , L0006072 , L0006073 ,
L0006074 , L0006075 , L0006076 ,

L0006077 , L0006078 , L0006079 , L0006080 , L0006081 ,
L0006082 , L0006083 , L0006084 ,

L0006085 , L0006086 , L0006087 , L0006088 , L0006089 ,
L0006090 , L0006091 , L0006092 ,

L0006093 , L0006094 , L0006095 , L0006096 , L0006097 ,
L0006098 , L0006099 , L0006100 ,

L0006101 , L0006102 , L0006103 , L0006104 , L0006105 ,
L0006106 , L0006107 , L0006108 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0006109 , L0006110 , L0006111 , L0006112 , L0006113 , L0006114 , L0006115 , L0006116 ,

L0006117 , L0006118 , L0006119 , L0006120 , L0006121 , L0006122 , L0006123 , L0006124 ,

L0006125 , L0006126 , L0006127 , L0006128 , L0006129 , L0006130 , L0006131 , L0006132 ,

L0006133 , L0006134 , L0006135 , L0006136 , L0006137 , L0006138 , L0006139 , L0006140 ,

L0006141 , L0006142 , L0006143 , L0006144 , L0006145 , L0006146 , L0006147 , L0006148 ,

L0006149 , L0006150 , L0006151 , L0006152 , L0006153 , L0006154 , L0006155 , L0006156 ,

L0006157 , L0006158 , L0006159 , L0006160 , L0006161 , L0006162 , L0006163 , L0006164 ,

L0006165 , L0006166 , L0006167 , L0006168 , L0006169 , L0006170 , L0006171 , L0006172 ,

L0006173 , L0006174 , L0006175 , L0006176 , L0006177 , L0006178 , L0006179 , L0006180 ,

L0006181 , L0006182 , L0006183 , L0006184 , L0006185 , L0006186 , L0006187 , L0006188 ,

L0006189 , L0006190 , L0006191 , L0006192 , L0006193 , L0006194 , L0006195 , L0006196 ,

L0006197 , L0006198 , L0006199 , L0006200 , L0006201 ,

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

L0006202 , L0006203 , L0006204 ,

L0006205 , L0006206 , L0006207 , L0006208 , L0006209 ,
L0006210 , L0006211 , L0006212 ,

L0006213 , L0006214 , L0006215 , L0006216 , L0006217 ,
L0006218 , L0006219 , L0006220 ,

L0006221 , L0006222 , L0006223 , L0006224 , L0006225 ,
L0006226 , L0006227 , L0006228 ,

L0006229 , L0006230 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(485254.0, 3755508.6, 541.1, 541.1, 0.0); (485271.0, 3754588.9, 520.4, 520.4, 0.0);
(484903.9, 3754588.9, 522.9, 522.9, 0.0); (484740.6, 3754586.3, 523.0, 523.0, 0.0);
(484962.7, 3754583.6, 522.2, 522.2, 0.0); (484995.2, 3754578.2, 522.1, 522.1, 0.0);
(485061.1, 3754595.7, 522.4, 522.4, 0.0); (485081.6, 3754593.0, 522.0, 522.0, 0.0);
(485193.0, 3754581.9, 521.0, 521.0, 0.0); (484823.6, 3754585.0, 523.3, 523.3, 0.0);
(484884.8, 3754593.0, 523.0, 523.0, 0.0); (484798.7, 3754595.4, 523.6, 523.6, 0.0);
(485166.1, 3754581.9, 521.2, 521.2, 0.0); (485167.3, 3755143.8, 533.9, 533.9, 0.0);
(485005.8, 3755160.8, 535.5, 535.5, 0.0); (484254.1, 3755093.7, 536.2, 623.0, 0.0);
(484513.4, 3755169.9, 537.8, 537.8, 0.0); (484084.6, 3755094.8, 535.3, 626.0, 0.0);
(484819.3, 3755160.8, 537.3, 537.3, 0.0);

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                    (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                    *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                          (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,
10.80,
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                        ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       11:18:08

                                   PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

   Surface file:   PerrisADJU\PERI_V9_ADJU\PERI_v9.SFC
                 Met Version:  16216
   Profile file:   PerrisADJU\PERI_V9_ADJU\PERI_v9.PFL

   Surface format: FREE
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61	0.33	0.90	239.	9.1	284.2	5.5
10	01	01	1	10	56.7	0.087	0.560	0.010	107.	62.	-1.0	0.19	0.61	0.26	0.40	188.	9.1	289.2	5.5
10	01	01	1	11	81.5	0.323	0.867	0.008	277.	441.	-35.9	0.19	0.61	0.23	2.70	310.	9.1	290.9	5.5
10	01	01	1	12	97.1	0.281	1.058	0.008	421.	357.	-19.7	0.19	0.61	0.22	2.20	357.	9.1	293.1	5.5
10	01	01	1	13	92.2	0.279	1.117	0.008	523.	354.	-20.4	0.19	0.61	0.22	2.20	356.	9.1	293.8	5.5
10	01	01	1	14	77.6	0.275	1.102	0.008	595.	347.	-23.2	0.19	0.61	0.23	2.20	50.	9.1	294.2	5.5
10	01	01	1	15	54.9	0.230	1.006	0.008	640.	266.	-19.2	0.19	0.61	0.27	1.80	53.	9.1	293.8	5.5
10	01	01	1	16	12.3	0.206	0.613	0.008	648.	225.	-61.5	0.19	0.61	0.36	1.80	11.	9.1	292.5	5.5
10	01	01	1	17	-3.6	0.087	-9.000	-9.000	-999.	71.	15.6	0.19	0.61	0.64	0.90	351.	9.1	290.4	5.5
10	01	01	1	18	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	186.	9.1	287.5	5.5
10	01	01	1	19	-3.8	0.087	-9.000	-9.000	-999.	62.	15.2	0.19	0.61	1.00	0.90	275.	9.1	285.9	5.5

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61
1.00    0.40  181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61
1.00    1.30  318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61
1.00    1.30  332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                        ***        11:18:08

                                   PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                   INCLUDING SOURCE(S):     L0005309    , L0005310
 , L0005311    , L0005312    , L0005313    ,
                   L0005314    , L0005315    , L0005316    , L0005317    , L0005318
 , L0005319    , L0005320    , L0005321    ,
                   L0005322    , L0005323    , L0005324    , L0005325    , L0005326
 , L0005327    , L0005328    , L0005329    ,
                   L0005330    , L0005331    , L0005332    , L0005333    , L0005334
 , L0005335    , L0005336    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF OTHER    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         485254.01    3755508.63        0.00277                      485270.99
3754588.87        0.01097
         484903.88    3754588.87        0.01098                      484740.57
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
3754586.26        0.00762
         484962.67    3754583.65        0.01098                    484995.17
3754578.23        0.01075
         485061.11    3754595.73        0.01221                    485081.62
3754593.03        0.01198
         485192.97    3754581.93        0.01096                    484823.61
3754584.96        0.00959
         484884.84    3754593.03        0.01109                    484798.72
3754595.39        0.00975
         485166.06    3754581.93        0.01104                    485167.27
3755143.75        0.00926
         485005.78    3755160.81        0.00831                    484254.07
3755093.71        0.00436
         484513.36    3755169.91        0.00384                    484084.62
3755094.85        0.00261
         484819.28    3755160.81        0.00706

 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                         ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                          ***        11:18:08

                                    PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                    *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***


                                     ** CONC OF OTHER    IN MICROGRAMS/M**3
               **


                         NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.01221 AT (  485061.11,  3754595.73,
522.41,   522.41,    0.00)  DC
          2ND HIGHEST VALUE IS       0.01198 AT (  485081.62,  3754593.03,
521.98,   521.98,    0.00)  DC
          3RD HIGHEST VALUE IS       0.01109 AT (  484884.84,  3754593.03,
523.00,   523.00,    0.00)  DC
          4TH HIGHEST VALUE IS       0.01104 AT (  485166.06,  3754581.93,
521.19,   521.19,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01098 AT (  484962.67,  3754583.65,
522.24,   522.24,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01098 AT (  484903.88,  3754588.87,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

```
522.93,   522.93,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01097 AT (  485270.99,  3754588.87,
520.42,   520.42,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01096 AT (  485192.97,  3754581.93,
521.04,   521.04,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01075 AT (  484995.17,  3754578.23,
522.06,   522.06,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00975 AT (  484798.72,  3754595.39,
523.63,   523.63,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\Lakes\AERMOD View\12974 HCW\12974
HCW.isc                          ***        04/25/22
 *** AERMET - VERSION  16216 ***   ***
                       ***        11:18:08

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


    ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2086       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    2086       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
  14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

2 year gap

```
 ***********************************
 *** AERMOD Finishes Successfully ***
 ***********************************
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (Warehouse) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

April 25, 2022
Mr. John Grace
Hillwood
901 Via Piemonte Suite 175
Ontario, CA 91764

MORENO VALLEY TRADE CENTER (E-COMMERCE SCENARIO) AIR QUALITY, GREENHOUSE GAS, AND HEALTH RISK ASSESSMENT EVALUATION

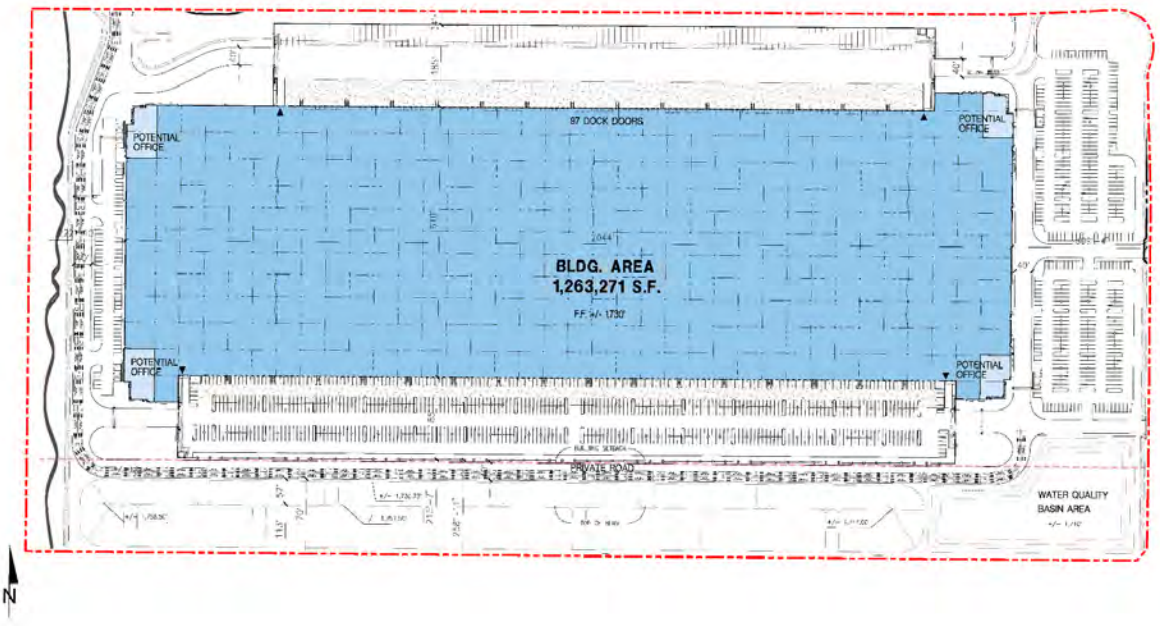
Mr. John Grace,

Urban Crossroads, Inc. is pleased to provide the following Air Quality (**AQ**), Greenhouse Gas (**GHG**), and Health Risk Assessment (**HRA**) Evaluation for the Moreno Valley Trade Center (E-Commerce Scenario) development which is located in the City of Moreno Valley. The purpose of this work effort is to assess the potential changes in air quality, greenhouse gas, and health risks associated with the updated site plan for the Project.

BACKGROUND

On October 9, 2020, Urban Crossroads, Inc. prepared an AQ, GHG, and HRA Evaluation for the proposed Moreno Valley Trade Center E-Commerce development (1). At the time the study was prepared, the proposed Project included the construction of approximately 50,000 sf of High-Cube Cold Storage facilities and 1,282,380 sf of E-Commerce facilities. Since then, the Project now proposes approximately 50,000 sf of High-Cube Cold Storage facilities and 1,213,271 sf of E-Commerce facilities (as illustrated on Exhibit 1). Therefore, for purposes of analysis in this memorandum, the Project now includes a reduction of 69,109 sf of building space. This memorandum includes the comparison of the emissions totals in the prior evaluation to what is now being proposed.

EXHIBIT 1: PRELIMINARY SITE PLAN



Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

AIR QUALITY AND GREENHOUSE GAS EMISSIONS

A comparison of the operational-source emissions disclosed in the previous technical study compared to emissions anticipated from the Proposed Project are summarized on Tables 1 and 2.

TABLE 1: PREVIOUSLY ANALYZED LAND USE AIR QUALITY EMISSIONS

Source	Emissions (lbs/day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Summer						
Previous Technical Study	49.91	199.53	246.83	1.49	104.46	30.22
Proposed Project	47.25	189.06	234.00	1.41	98.94	28.63
Net Emissions	-2.66	-10.47	-12.83	-0.08	-5.52	-1.59
Winter						
Previous Technical Study	49.11	207.58	213.27	1.44	104.44	30.21
Proposed Project	46.49	196.67	202.21	1.36	98.91	28.62
Net Emissions	-2.62	-10.91	-11.06	-0.08	-5.53	-1.59

TABLE 2: GHG EMISSIONS SUMMARY

Emissions Source	Emissions (MT/yr) Total CO2e
Previous Technical Study	29,006.27
Proposed Project	27,327.57
Net Emissions	-1,678.70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ENERGY DEMAND COMPARISON

Tables 3 and 4 summarize the net transportation and facility energy demands associated with the Proposed Project.

TABLE 3: NET TRANSPORTATION ENERGY DEMAND

	Annual VMT	Annual Fuel Consumption
Previous Technical Study	46,498,237	2,695,350
Proposed Project	44,037,350	2,552,700
Net Emissions	-2,460,887	-142,650

TABLE 4: NET FACILITY ENERGY DEMAND

Natural Gas	kBTU/year
Previous Technical Study	4,373,300
Proposed Project	4,274,480
Net Change	-98,820
Electricity Demand	kWH/year
Previous Technical Study	4,674,560
Proposed Project	4,444,550
Net Change	-230,010

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

HEALTH RISK COMPARISON

Table 5 compares the maximum lifetime cancer risk for the Proposed Project with risks generated by the Previous Technical Study. As indicated at Table 5, the Proposed Project would result in a net decrease of 0.12 risks per million and 0.02 risks per million for the 30-year exposure and 25-year exposure time periods, respectively.

TABLE 5: NET HEALTH RISKS

	30 Year Exposure Risk
Previous Technical Study	2.29
Proposed Project	2.17
Net Change	-0.12
	25 Year Exposure Risk
Previous Technical Study	0.44
Proposed Project	0.42
Net Change	-0.02

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the Proposed Project results in a net reduction in air quality, greenhouse gas, and health risk impacts.

Respectfully submitted,

URBAN CROSSROADS, INC.

Haseeb Qureshi
Principal

REFERENCES

Urban Crossroads, Inc. (2020). *Moreno Valley Trade Center E-Commerce Air Quality Impact Analysis.*

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ATTACHMENT A

CALEEMOD OUTPUTS

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**7.5548**	**3.7908**	**31.9518**	**0.1072**	**11.9648**	**0.1102**	**12.0750**	**3.1757**	**0.1027**	**3.2784**	**333.7254**	**12,619.2832**	**12,953.0086**	**24.1673**	**0.2514**	**13,632.1067**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**7.5548**	**3.7908**	**31.9518**	**0.1072**	**11.9648**	**0.1102**	**12.0750**	**3.1757**	**0.1027**	**3.2784**	**333.7254**	**12,619.2832**	**12,953.0086**	**24.1673**	**0.2514**	**13,632.1067**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045
Unmitigated	2.1474	2.4241	31.0375	0.1030	11.9648	0.0542	12.0190	3.1757	0.0499	3.2256	0.0000	9,509.0160	9,509.0160	0.2075	0.0000	9,514.2045

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Unmitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.6690**	**19.6092**	**199.1330**	**0.6297**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**64,671.3286**	**64,671.3286**	**1.7632**	**0.0253**	**64,722.9366**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.6690**	**19.6092**	**199.1330**	**0.6297**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**64,671.3286**	**64,671.3286**	**1.7632**	**0.0253**	**64,722.9366**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162
Unmitigated	13.0287	12.1196	194.0076	0.6070	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		61,758.8502	61,758.8502	1.2386		61,789.8162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Moreno Valley Trade Center - E-Commerce (Operations - Passenger Cars)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Area Coating -

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Water And Wastewater -

Solid Waste -

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Passenger Car Fleet Mix estimated based on the ratio of the vehicle classes in CalEEMod default fleet mix.

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.00
tblFleetMix	HHD	0.07	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62

tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LDT2	0.19	0.21
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.20
tblVehicleTrips	ST_TR	1.68	4.32
tblVehicleTrips	SU_TR	1.68	1.20

tblVehicleTrips	SU_TR	1.68	4.32
tblVehicleTrips	WD_TR	1.68	1.20
tblVehicleTrips	WD_TR	1.68	4.32

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.0109**	**20.3213**	**170.5613**	**0.5826**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**59,880.6097**	**59,880.6097**	**1.7733**	**0.0253**	**59,932.4688**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**42.0109**	**20.3213**	**170.5613**	**0.5826**	**66.8563**	**0.6053**	**67.4616**	**17.7228**	**0.5643**	**18.2871**		**59,880.6097**	**59,880.6097**	**1.7733**	**0.0253**	**59,932.4688**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485
Unmitigated	12.3707	12.8317	165.4359	0.5598	66.8563	0.2981	67.1543	17.7228	0.2745	17.9974		56,968.1313	56,968.1313	1.2487		56,999.3485

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	60.00	60.00	60.00	362,544	362,544
Unrefrigerated Warehouse-No Rail	5,241.33	5,241.33	5241.33	31,670,191	31,670,191
Total	5,301.33	5,301.33	5,301.33	32,032,735	32,032,735

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	16.60	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.617300	0.041700	0.210500	0.130500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.2355**	**33.9178**	**7.2563**	**0.1459**	**5.2450**	**0.4633**	**5.7082**	**1.4740**	**0.4424**	**1.9164**	**333.7254**	**16,800.0831**	**17,133.8085**	**24.1856**	**0.2514**	**17,813.3639**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Energy	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	1,644.2321	1,644.2321	0.0628	0.0163	1,650.6539
Mobile	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Offroad	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Waste						0.0000	0.0000		0.0000	0.0000	241.0457	0.0000	241.0457	14.2454	0.0000	597.1805
Water						0.0000	0.0000		0.0000	0.0000	92.6798	1,211.9850	1,304.6647	9.5691	0.2351	1,613.9586
Total	**6.2355**	**33.9178**	**7.2563**	**0.1459**	**5.2450**	**0.4633**	**5.7082**	**1.4740**	**0.4424**	**1.9164**	**333.7254**	**16,800.0831**	**17,133.8085**	**24.1856**	**0.2514**	**17,813.3639**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616
Unmitigated	0.8281	32.5511	6.3421	0.1418	5.2450	0.4073	5.6522	1.4740	0.3896	1.8636	0.0000	13,689.8159	13,689.8159	0.2258	0.0000	13,695.4616

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,416.1298	1,416.1298	0.0585	0.0121	1,421.1961
NaturalGas Mitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578
NaturalGas Unmitigated	0.0231	0.2095	0.1760	1.2600e-003		0.0159	0.0159		0.0159	0.0159	0.0000	228.1023	228.1023	4.3700e-003	4.1800e-003	229.4578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	2.5395e+006	0.0137	0.1245	0.1046	7.5000e-004		9.4600e-003	9.4600e-003		9.4600e-003	9.4600e-003	0.0000	135.5174	135.5174	2.6000e-003	2.4800e-003	136.3227
Unrefrigerated Warehouse-No Rail	1.73498e+006	9.3600e-003	0.0851	0.0714	5.1000e-004		6.4600e-003	6.4600e-003		6.4600e-003	6.4600e-003	0.0000	92.5849	92.5849	1.7700e-003	1.7000e-003	93.1351
Total		**0.0231**	**0.2095**	**0.1760**	**1.2600e-003**		**0.0159**	**0.0159**		**0.0159**	**0.0159**	**0.0000**	**228.1023**	**228.1023**	**4.3700e-003**	**4.1800e-003**	**229.4578**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	193340	61.6023	2.5400e-003	5.3000e-004	61.8227
Refrigerated Warehouse-No Rail	1.946e+006	620.0373	0.0256	5.3000e-003	622.2555
Unrefrigerated Warehouse-No Rail	2.30521e+006	734.4903	0.0303	6.2700e-003	737.1179
Total		**1,416.1298**	**0.0585**	**0.0121**	**1,421.1961**

6.0 Area Detail

6.1 Mitigation Measures Area

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Unmitigated	5.2730	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.6065					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.6622					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.2800e-003	4.2000e-004	0.0460	0.0000		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	0.0893	0.0893	2.4000e-004	0.0000	0.0952
Total	**5.2730**	**4.2000e-004**	**0.0460**	**0.0000**		**1.6000e-004**	**1.6000e-004**		**1.6000e-004**	**1.6000e-004**	**0.0000**	**0.0893**	**0.0893**	**2.4000e-004**	**0.0000**	**0.0952**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1,304.6647	9.5691	0.2351	1,613.9586
Unmitigated	1,304.6647	9.5691	0.2351	1,613.9586

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	11.5625 / 0	51.6384	0.3787	9.3100e-003	63.8802
Unrefrigerated Warehouse-No Rail	280.569 / 0	1,253.0263	9.1904	0.2258	1,550.0784
Total		**1,304.6647**	**9.5691**	**0.2351**	**1,613.9586**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	241.0457	14.2454	0.0000	597.1805
Unmitigated	241.0457	14.2454	0.0000	597.1805

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	47	9.5406	0.5638	0.0000	23.6364
Unrefrigerated Warehouse-No Rail	1140.47	231.5051	13.6816	0.0000	573.5441
Total		**241.0457**	**14.2454**	**0.0000**	**597.1805**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Tractors/Loaders/ Backhoes	0.1113	1.1567	0.6922	2.8900e-003		0.0399	0.0399		0.0367	0.0367	0.0000	253.9608	253.9608	0.0821	0.0000	256.0142
Total	**0.1113**	**1.1567**	**0.6922**	**2.8900e-003**		**0.0399**	**0.0399**		**0.0367**	**0.0367**	**0.0000**	**253.9608**	**253.9608**	**0.0821**	**0.0000**	**256.0142**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.2208**	**176.9361**	**39.9969**	**0.8027**	**29.2366**	**2.5472**	**31.7838**	**8.2016**	**2.4325**	**10.6342**		**85,921.1447**	**85,921.1447**	**1.8963**	**0.0253**	**85,976.0785**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.2208**	**176.9361**	**39.9969**	**0.8027**	**29.2366**	**2.5472**	**31.7838**	**8.2016**	**2.4325**	**10.6342**		**85,921.1447**	**85,921.1447**	**1.8963**	**0.0253**	**85,976.0785**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581
Unmitigated	4.5805	169.4465	34.8715	0.7799	29.2366	2.2400	31.4765	8.2016	2.1428	10.3444		83,008.6663	83,008.6663	1.3717		83,042.9581

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Moreno Valley Trade Center - E-Commerce (Operations - Trucks)

Riverside-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	50.00	1000sqft	1.15	50,000.00	0
Unrefrigerated Warehouse-No Rail	1,213.27	1000sqft	27.85	1,213,270.00	0
Other Asphalt Surfaces	954.50	1000sqft	21.91	954,505.00	0
Parking Lot	1,381.00	Space	21.75	552,400.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.4	**Precipitation Freq (Days)**	28
Climate Zone	10			**Operational Year**	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Project Characteristics -

Land Use - Total Project Area is 71.65 acres

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Vehicle Trips - Trip Characteristics based on information provided in the Moreno Valley Trade Center Memorandum by Translutions, Inc.

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Vehicle Emission Factors - EMFAC2017

Energy Use - The Project will design building shells and building components to meet 2019 Title 24 Standards which expects 30% less energy for nonresidential uses

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results (2014)

Fleet Mix - Truck Fleet Mix estimated by rationing the Trip Rates for each truck type based on information provided in the Traffic Memorandum

Area Coating -

Solid Waste -

Water And Wastewater -

Table Name	Column Name	Default Value	New Value
tblEnergyUse	LightingElect	2.37	1.66
tblEnergyUse	LightingElect	1.17	0.82
tblEnergyUse	T24E	1.06	0.74
tblEnergyUse	T24E	0.37	0.26
tblEnergyUse	T24NG	3.25	2.28
tblEnergyUse	T24NG	2.00	1.40
tblFleetMix	HHD	0.07	0.60
tblFleetMix	HHD	0.07	0.62
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LDT2	0.19	0.00
tblFleetMix	LHD1	0.02	0.17
tblFleetMix	LHD1	0.02	0.21
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	LHD2	4.9700e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MCY	4.5470e-003	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MH	9.6500e-004	0.00
tblFleetMix	MHD	0.02	0.23
tblFleetMix	MHD	0.02	0.18
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	OBUS	1.3970e-003	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	SBUS	9.3200e-004	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblFleetMix	UBUS	1.1600e-003	0.00
tblLandUse	LandUseSquareFeet	954,500.00	954,505.00
tblLandUse	LotAcreage	12.43	21.75
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00

tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	5.00
tblVehicleEF	HHD	1.36	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	3.11	6.00
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.41	4.6550e-003
tblVehicleEF	HHD	6,423.61	1,112.99
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	24.87	5.85
tblVehicleEF	HHD	2.31	2.81
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.0310e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	2.9000e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.80	0.44
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	7.3000e-005	3.0000e-006
tblVehicleEF	HHD	2.3460e-003	1.1000e-004
tblVehicleEF	HHD	0.92	0.50
tblVehicleEF	HHD	4.3000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.08
tblVehicleEF	HHD	1.5800e-004	5.0300e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.28	0.02
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	2.26	5.87
tblVehicleEF	HHD	0.45	0.30
tblVehicleEF	HHD	1.34	4.3930e-003
tblVehicleEF	HHD	6,805.04	1,108.39
tblVehicleEF	HHD	1,444.51	1,341.20
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	25.67	5.66

tblVehicleEF	HHD	2.18	2.65
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	9.3550e-003	2.6730e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	8.9510e-003	2.5580e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.8080e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.75	0.46
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.8000e-005	0.00
tblVehicleEF	HHD	1.3900e-004	6.0000e-006
tblVehicleEF	HHD	2.6650e-003	1.2100e-004
tblVehicleEF	HHD	0.87	0.52
tblVehicleEF	HHD	8.2000e-005	4.0000e-006
tblVehicleEF	HHD	0.10	0.08

tblVehicleEF	HHD	1.6100e-004	5.1000e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	1.46	0.02
tblVehicleEF	HHD	0.03	2.2560e-003
tblVehicleEF	HHD	0.09	0.00
tblVehicleEF	HHD	4.28	6.14
tblVehicleEF	HHD	0.44	0.23
tblVehicleEF	HHD	1.42	4.6050e-003
tblVehicleEF	HHD	5,896.87	1,113.28
tblVehicleEF	HHD	1,444.51	1,323.58
tblVehicleEF	HHD	4.59	0.04
tblVehicleEF	HHD	23.77	6.08
tblVehicleEF	HHD	2.30	2.76
tblVehicleEF	HHD	20.31	2.22
tblVehicleEF	HHD	0.01	3.4600e-003
tblVehicleEF	HHD	0.06	0.06
tblVehicleEF	HHD	0.04	0.04
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.7000e-005	1.0000e-006
tblVehicleEF	HHD	0.01	3.3110e-003
tblVehicleEF	HHD	0.03	0.03
tblVehicleEF	HHD	8.8650e-003	8.7590e-003
tblVehicleEF	HHD	0.01	0.03
tblVehicleEF	HHD	3.4000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.86	0.41

tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.06	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	HHD	0.06	0.01
tblVehicleEF	HHD	0.01	0.01
tblVehicleEF	HHD	6.9000e-005	0.00
tblVehicleEF	HHD	5.5000e-005	3.0000e-006
tblVehicleEF	HHD	2.4470e-003	1.2300e-004
tblVehicleEF	HHD	0.99	0.47
tblVehicleEF	HHD	3.6000e-005	2.0000e-006
tblVehicleEF	HHD	0.10	0.05
tblVehicleEF	HHD	1.6900e-004	5.3500e-004
tblVehicleEF	HHD	0.04	1.0000e-006
tblVehicleEF	LDA	3.6620e-003	2.1320e-003
tblVehicleEF	LDA	4.7760e-003	0.05
tblVehicleEF	LDA	0.54	0.60
tblVehicleEF	LDA	1.05	2.09
tblVehicleEF	LDA	245.52	258.04
tblVehicleEF	LDA	56.65	53.55
tblVehicleEF	LDA	0.05	0.03
tblVehicleEF	LDA	0.07	0.18
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.05	0.05

tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	9.2080e-003	8.0170e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.21
tblVehicleEF	LDA	2.4580e-003	2.5360e-003
tblVehicleEF	LDA	5.8400e-004	5.2600e-004
tblVehicleEF	LDA	0.05	0.05
tblVehicleEF	LDA	0.10	0.09
tblVehicleEF	LDA	0.04	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDA	4.1530e-003	2.4040e-003
tblVehicleEF	LDA	4.1450e-003	0.04
tblVehicleEF	LDA	0.66	0.72
tblVehicleEF	LDA	0.93	1.75
tblVehicleEF	LDA	267.36	278.99
tblVehicleEF	LDA	56.65	52.91
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.06	0.16
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10

tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.01	8.9450e-003
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.18
tblVehicleEF	LDA	2.6780e-003	2.7420e-003
tblVehicleEF	LDA	5.8200e-004	5.2000e-004
tblVehicleEF	LDA	0.09	0.10
tblVehicleEF	LDA	0.11	0.10
tblVehicleEF	LDA	0.07	0.08
tblVehicleEF	LDA	0.02	0.01
tblVehicleEF	LDA	0.04	0.20
tblVehicleEF	LDA	0.06	0.20
tblVehicleEF	LDA	3.5320e-003	2.0960e-003
tblVehicleEF	LDA	4.9050e-003	0.05
tblVehicleEF	LDA	0.51	0.58
tblVehicleEF	LDA	1.08	2.07
tblVehicleEF	LDA	239.46	254.50
tblVehicleEF	LDA	56.65	53.52
tblVehicleEF	LDA	0.04	0.03
tblVehicleEF	LDA	0.07	0.17
tblVehicleEF	LDA	1.5830e-003	1.3710e-003
tblVehicleEF	LDA	2.2500e-003	1.8340e-003
tblVehicleEF	LDA	1.4580e-003	1.2630e-003
tblVehicleEF	LDA	2.0690e-003	1.6860e-003
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04

tblVehicleEF	LDA	8.8850e-003	7.8720e-003
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.21
tblVehicleEF	LDA	2.3970e-003	2.5010e-003
tblVehicleEF	LDA	5.8500e-004	5.2600e-004
tblVehicleEF	LDA	0.04	0.05
tblVehicleEF	LDA	0.10	0.10
tblVehicleEF	LDA	0.03	0.04
tblVehicleEF	LDA	0.01	0.01
tblVehicleEF	LDA	0.04	0.23
tblVehicleEF	LDA	0.07	0.23
tblVehicleEF	LDT1	0.01	6.6590e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.32	1.37
tblVehicleEF	LDT1	3.05	2.37
tblVehicleEF	LDT1	305.87	306.08
tblVehicleEF	LDT1	70.39	65.28
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.19	0.29
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.03	0.03

tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.21	0.41
tblVehicleEF	LDT1	3.0750e-003	3.0090e-003
tblVehicleEF	LDT1	7.5800e-004	6.4200e-004
tblVehicleEF	LDT1	0.20	0.18
tblVehicleEF	LDT1	0.32	0.25
tblVehicleEF	LDT1	0.13	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.19	0.80
tblVehicleEF	LDT1	0.23	0.45
tblVehicleEF	LDT1	0.01	7.4260e-003
tblVehicleEF	LDT1	0.01	0.07
tblVehicleEF	LDT1	1.59	1.62
tblVehicleEF	LDT1	2.68	1.98
tblVehicleEF	LDT1	332.27	327.89
tblVehicleEF	LDT1	70.39	64.46
tblVehicleEF	LDT1	0.12	0.11
tblVehicleEF	LDT1	0.18	0.27
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.19	0.78

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	LDT1	0.18	0.35
tblVehicleEF	LDT1	3.3430e-003	3.2240e-003
tblVehicleEF	LDT1	7.5100e-004	6.3400e-004
tblVehicleEF	LDT1	0.38	0.33
tblVehicleEF	LDT1	0.40	0.29
tblVehicleEF	LDT1	0.25	0.23
tblVehicleEF	LDT1	0.04	0.05
tblVehicleEF	LDT1	0.19	0.78
tblVehicleEF	LDT1	0.20	0.38
tblVehicleEF	LDT1	0.01	6.5510e-003
tblVehicleEF	LDT1	0.02	0.08
tblVehicleEF	LDT1	1.24	1.33
tblVehicleEF	LDT1	3.11	2.35
tblVehicleEF	LDT1	298.00	302.40
tblVehicleEF	LDT1	70.39	65.25
tblVehicleEF	LDT1	0.12	0.12
tblVehicleEF	LDT1	0.19	0.28
tblVehicleEF	LDT1	2.3960e-003	2.0660e-003
tblVehicleEF	LDT1	3.5150e-003	2.7560e-003
tblVehicleEF	LDT1	2.2060e-003	1.9010e-003
tblVehicleEF	LDT1	3.2320e-003	2.5340e-003
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.03	0.03
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.22	0.41

tblVehicleEF	LDT1	2.9950e-003	2.9730e-003
tblVehicleEF	LDT1	7.5900e-004	6.4200e-004
tblVehicleEF	LDT1	0.17	0.18
tblVehicleEF	LDT1	0.36	0.28
tblVehicleEF	LDT1	0.11	0.12
tblVehicleEF	LDT1	0.04	0.04
tblVehicleEF	LDT1	0.22	0.93
tblVehicleEF	LDT1	0.24	0.45
tblVehicleEF	LDT2	5.1640e-003	3.5680e-003
tblVehicleEF	LDT2	6.4600e-003	0.07
tblVehicleEF	LDT2	0.71	0.85
tblVehicleEF	LDT2	1.39	2.68
tblVehicleEF	LDT2	342.68	324.29
tblVehicleEF	LDT2	78.65	69.43
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.4320e-003	3.1880e-003

tblVehicleEF	LDT2	8.1000e-004	6.8300e-004
tblVehicleEF	LDT2	0.07	0.09
tblVehicleEF	LDT2	0.11	0.13
tblVehicleEF	LDT2	0.05	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.41
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LDT2	5.8560e-003	4.0040e-003
tblVehicleEF	LDT2	5.6090e-003	0.06
tblVehicleEF	LDT2	0.87	1.02
tblVehicleEF	LDT2	1.23	2.24
tblVehicleEF	LDT2	372.88	345.21
tblVehicleEF	LDT2	78.65	68.58
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.26
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.01	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.27
tblVehicleEF	LDT2	3.7360e-003	3.3930e-003
tblVehicleEF	LDT2	8.0700e-004	6.7400e-004

tblVehicleEF	LDT2	0.13	0.16
tblVehicleEF	LDT2	0.13	0.14
tblVehicleEF	LDT2	0.10	0.14
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.06	0.40
tblVehicleEF	LDT2	0.08	0.29
tblVehicleEF	LDT2	4.9650e-003	3.5090e-003
tblVehicleEF	LDT2	6.6500e-003	0.07
tblVehicleEF	LDT2	0.67	0.82
tblVehicleEF	LDT2	1.42	2.66
tblVehicleEF	LDT2	333.62	320.76
tblVehicleEF	LDT2	78.65	69.40
tblVehicleEF	LDT2	0.07	0.07
tblVehicleEF	LDT2	0.11	0.28
tblVehicleEF	LDT2	1.6000e-003	1.4090e-003
tblVehicleEF	LDT2	2.3460e-003	1.8660e-003
tblVehicleEF	LDT2	1.4710e-003	1.2970e-003
tblVehicleEF	LDT2	2.1570e-003	1.7160e-003
tblVehicleEF	LDT2	0.05	0.08
tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.01	0.01
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.09	0.31
tblVehicleEF	LDT2	3.3410e-003	3.1530e-003
tblVehicleEF	LDT2	8.1000e-004	6.8200e-004
tblVehicleEF	LDT2	0.05	0.08

tblVehicleEF	LDT2	0.12	0.14
tblVehicleEF	LDT2	0.04	0.07
tblVehicleEF	LDT2	0.02	0.02
tblVehicleEF	LDT2	0.07	0.47
tblVehicleEF	LDT2	0.10	0.34
tblVehicleEF	LHD1	5.1810e-003	4.6570e-003
tblVehicleEF	LHD1	9.5070e-003	4.8740e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.92
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.02
tblVehicleEF	LHD1	29.86	10.15
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.06	1.53
tblVehicleEF	LHD1	0.96	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07

tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.7780e-003	2.5170e-003
tblVehicleEF	LHD1	0.10	0.07
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.8760e-003	1.3130e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.31	0.46
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6710e-003
tblVehicleEF	LHD1	9.6980e-003	4.9550e-003
tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.89	0.67
tblVehicleEF	LHD1	2.15	0.87
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.04
tblVehicleEF	LHD1	29.86	10.07
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	1.94	1.44
tblVehicleEF	LHD1	0.93	0.28

tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.23	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9030e-003	6.1050e-003
tblVehicleEF	LHD1	3.4000e-004	1.0000e-004
tblVehicleEF	LHD1	7.0590e-003	4.4750e-003
tblVehicleEF	LHD1	0.12	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	3.5660e-003	2.5190e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.32	0.46
tblVehicleEF	LHD1	0.25	0.08
tblVehicleEF	LHD1	5.1810e-003	4.6600e-003
tblVehicleEF	LHD1	9.4900e-003	4.8830e-003

tblVehicleEF	LHD1	0.02	0.01
tblVehicleEF	LHD1	0.14	0.17
tblVehicleEF	LHD1	0.88	0.66
tblVehicleEF	LHD1	2.26	0.91
tblVehicleEF	LHD1	9.26	9.43
tblVehicleEF	LHD1	602.20	628.03
tblVehicleEF	LHD1	29.86	10.14
tblVehicleEF	LHD1	0.09	0.08
tblVehicleEF	LHD1	2.04	1.51
tblVehicleEF	LHD1	0.95	0.29
tblVehicleEF	LHD1	9.7000e-004	1.0050e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	8.2900e-004	2.1900e-004
tblVehicleEF	LHD1	9.2800e-004	9.6200e-004
tblVehicleEF	LHD1	2.5490e-003	2.5150e-003
tblVehicleEF	LHD1	0.01	0.01
tblVehicleEF	LHD1	7.6200e-004	2.0100e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.02
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.07	0.06
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.24	0.07
tblVehicleEF	LHD1	9.2000e-005	9.1000e-005
tblVehicleEF	LHD1	5.9020e-003	6.1050e-003

tblVehicleEF	LHD1	3.4200e-004	1.0000e-004
tblVehicleEF	LHD1	3.3490e-003	2.6470e-003
tblVehicleEF	LHD1	0.11	0.08
tblVehicleEF	LHD1	0.02	0.03
tblVehicleEF	LHD1	1.7110e-003	1.3780e-003
tblVehicleEF	LHD1	0.09	0.07
tblVehicleEF	LHD1	0.34	0.49
tblVehicleEF	LHD1	0.27	0.08
tblVehicleEF	LHD2	3.4600e-003	2.8390e-003
tblVehicleEF	LHD2	4.0020e-003	3.5160e-003
tblVehicleEF	LHD2	7.4040e-003	7.6560e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.08	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.52
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.50	1.67
tblVehicleEF	LHD2	0.50	0.17
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01

tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.5000e-005
tblVehicleEF	LHD2	1.4050e-003	1.1710e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	7.4200e-004	6.3000e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8460e-003
tblVehicleEF	LHD2	4.0450e-003	3.5410e-003
tblVehicleEF	LHD2	7.1500e-003	7.3630e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.04	0.47
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.47

tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.41	1.58
tblVehicleEF	LHD2	0.48	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.21
tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5100e-004	6.4000e-005
tblVehicleEF	LHD2	2.6530e-003	2.0860e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	1.3950e-003	1.2080e-003
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.21

tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	LHD2	3.4600e-003	2.8400e-003
tblVehicleEF	LHD2	3.9920e-003	3.5200e-003
tblVehicleEF	LHD2	7.4470e-003	7.6030e-003
tblVehicleEF	LHD2	0.12	0.13
tblVehicleEF	LHD2	0.45	0.48
tblVehicleEF	LHD2	1.09	0.49
tblVehicleEF	LHD2	14.41	15.04
tblVehicleEF	LHD2	598.41	622.37
tblVehicleEF	LHD2	23.24	6.51
tblVehicleEF	LHD2	0.11	0.13
tblVehicleEF	LHD2	1.48	1.65
tblVehicleEF	LHD2	0.50	0.16
tblVehicleEF	LHD2	1.3120e-003	1.5070e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.7000e-004	1.0100e-004
tblVehicleEF	LHD2	1.2550e-003	1.4420e-003
tblVehicleEF	LHD2	2.7000e-003	2.7370e-003
tblVehicleEF	LHD2	0.01	0.01
tblVehicleEF	LHD2	3.4000e-004	9.3000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.01	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.05	0.06
tblVehicleEF	LHD2	0.08	0.22

tblVehicleEF	LHD2	0.10	0.04
tblVehicleEF	LHD2	1.4000e-004	1.4300e-004
tblVehicleEF	LHD2	5.8170e-003	5.9880e-003
tblVehicleEF	LHD2	2.5200e-004	6.4000e-005
tblVehicleEF	LHD2	1.1040e-003	1.2010e-003
tblVehicleEF	LHD2	0.04	0.04
tblVehicleEF	LHD2	0.02	0.02
tblVehicleEF	LHD2	6.2900e-004	6.5400e-004
tblVehicleEF	LHD2	0.06	0.07
tblVehicleEF	LHD2	0.08	0.22
tblVehicleEF	LHD2	0.11	0.04
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	19.14	19.16
tblVehicleEF	MCY	9.69	8.62
tblVehicleEF	MCY	166.26	207.70
tblVehicleEF	MCY	45.80	60.67
tblVehicleEF	MCY	1.12	1.13
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.13	2.13

tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.06	1.84
tblVehicleEF	MCY	2.0370e-003	2.0550e-003
tblVehicleEF	MCY	6.7700e-004	6.0000e-004
tblVehicleEF	MCY	1.69	1.43
tblVehicleEF	MCY	0.85	0.79
tblVehicleEF	MCY	0.92	0.76
tblVehicleEF	MCY	2.63	2.63
tblVehicleEF	MCY	0.56	1.82
tblVehicleEF	MCY	2.24	2.00
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.14	0.21
tblVehicleEF	MCY	19.85	19.13
tblVehicleEF	MCY	9.10	7.90
tblVehicleEF	MCY	166.26	207.50
tblVehicleEF	MCY	45.80	58.76
tblVehicleEF	MCY	0.98	0.98
tblVehicleEF	MCY	0.29	0.25
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.11	2.09
tblVehicleEF	MCY	0.56	1.79

tblVehicleEF	MCY	1.85	1.61
tblVehicleEF	MCY	2.0480e-003	2.0530e-003
tblVehicleEF	MCY	6.6100e-004	5.8100e-004
tblVehicleEF	MCY	3.36	2.74
tblVehicleEF	MCY	1.24	1.09
tblVehicleEF	MCY	2.10	1.72
tblVehicleEF	MCY	2.61	2.57
tblVehicleEF	MCY	0.56	1.79
tblVehicleEF	MCY	2.01	1.76
tblVehicleEF	MCY	0.42	0.31
tblVehicleEF	MCY	0.15	0.24
tblVehicleEF	MCY	18.68	18.59
tblVehicleEF	MCY	9.65	8.41
tblVehicleEF	MCY	166.26	206.72
tblVehicleEF	MCY	45.80	60.18
tblVehicleEF	MCY	1.12	1.09
tblVehicleEF	MCY	0.31	0.26
tblVehicleEF	MCY	1.8240e-003	1.7610e-003
tblVehicleEF	MCY	3.3680e-003	2.8430e-003
tblVehicleEF	MCY	1.7050e-003	1.6470e-003
tblVehicleEF	MCY	3.1720e-003	2.6760e-003
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.12	2.11
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.07	1.80

tblVehicleEF	MCY	2.0300e-003	2.0460e-003
tblVehicleEF	MCY	6.7700e-004	5.9600e-004
tblVehicleEF	MCY	1.60	1.64
tblVehicleEF	MCY	1.04	1.06
tblVehicleEF	MCY	0.74	0.76
tblVehicleEF	MCY	2.62	2.60
tblVehicleEF	MCY	0.64	2.08
tblVehicleEF	MCY	2.26	1.96
tblVehicleEF	MDV	0.01	4.7140e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.26	1.01
tblVehicleEF	MDV	2.88	3.15
tblVehicleEF	MDV	474.24	407.49
tblVehicleEF	MDV	107.24	86.52
tblVehicleEF	MDV	0.15	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.22	0.41
tblVehicleEF	MDV	4.7510e-003	4.0030e-003

tblVehicleEF	MDV	1.1230e-003	8.5100e-004
tblVehicleEF	MDV	0.11	0.11
tblVehicleEF	MDV	0.20	0.16
tblVehicleEF	MDV	0.09	0.09
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.11	0.47
tblVehicleEF	MDV	0.24	0.45
tblVehicleEF	MDV	0.01	5.2950e-003
tblVehicleEF	MDV	0.01	0.07
tblVehicleEF	MDV	1.53	1.20
tblVehicleEF	MDV	2.54	2.62
tblVehicleEF	MDV	514.80	429.84
tblVehicleEF	MDV	107.24	85.49
tblVehicleEF	MDV	0.14	0.09
tblVehicleEF	MDV	0.26	0.34
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.19	0.35
tblVehicleEF	MDV	5.1610e-003	4.2230e-003
tblVehicleEF	MDV	1.1170e-003	8.4100e-004

tblVehicleEF	MDV	0.21	0.20
tblVehicleEF	MDV	0.23	0.17
tblVehicleEF	MDV	0.17	0.17
tblVehicleEF	MDV	0.05	0.03
tblVehicleEF	MDV	0.11	0.46
tblVehicleEF	MDV	0.21	0.39
tblVehicleEF	MDV	0.01	4.6310e-003
tblVehicleEF	MDV	0.02	0.08
tblVehicleEF	MDV	1.18	0.97
tblVehicleEF	MDV	2.94	3.12
tblVehicleEF	MDV	462.11	403.72
tblVehicleEF	MDV	107.24	86.49
tblVehicleEF	MDV	0.14	0.10
tblVehicleEF	MDV	0.27	0.36
tblVehicleEF	MDV	1.6800e-003	1.4810e-003
tblVehicleEF	MDV	2.4130e-003	1.9440e-003
tblVehicleEF	MDV	1.5490e-003	1.3660e-003
tblVehicleEF	MDV	2.2190e-003	1.7870e-003
tblVehicleEF	MDV	0.09	0.10
tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.03	0.02
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.23	0.41
tblVehicleEF	MDV	4.6290e-003	3.9660e-003
tblVehicleEF	MDV	1.1240e-003	8.5000e-004
tblVehicleEF	MDV	0.09	0.10

tblVehicleEF	MDV	0.21	0.17
tblVehicleEF	MDV	0.08	0.10
tblVehicleEF	MDV	0.04	0.03
tblVehicleEF	MDV	0.13	0.54
tblVehicleEF	MDV	0.25	0.45
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.33	0.34
tblVehicleEF	MH	5.58	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.57	4.40
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00
tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7100e-004	0.00

tblVehicleEF	MH	1.47	0.00
tblVehicleEF	MH	0.08	0.00
tblVehicleEF	MH	0.51	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.40	0.34
tblVehicleEF	MH	5.19	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.46	4.15
tblVehicleEF	MH	0.79	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.09	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.31	0.00
tblVehicleEF	MH	9.9080e-003	8.8470e-003

tblVehicleEF	MH	6.6400e-004	0.00
tblVehicleEF	MH	2.69	0.00
tblVehicleEF	MH	0.09	0.00
tblVehicleEF	MH	1.00	0.00
tblVehicleEF	MH	0.12	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.34	0.00
tblVehicleEF	MH	0.03	3.3380e-003
tblVehicleEF	MH	0.02	0.00
tblVehicleEF	MH	2.32	0.34
tblVehicleEF	MH	5.61	0.00
tblVehicleEF	MH	998.83	935.85
tblVehicleEF	MH	57.38	0.00
tblVehicleEF	MH	1.55	4.33
tblVehicleEF	MH	0.82	0.00
tblVehicleEF	MH	0.01	0.02
tblVehicleEF	MH	0.04	0.14
tblVehicleEF	MH	1.0280e-003	0.00
tblVehicleEF	MH	3.2460e-003	4.0000e-003
tblVehicleEF	MH	0.04	0.13
tblVehicleEF	MH	9.4600e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.08	0.07
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.33	0.00

tblVehicleEF	MH	9.9070e-003	8.8470e-003
tblVehicleEF	MH	6.7200e-004	0.00
tblVehicleEF	MH	1.48	0.00
tblVehicleEF	MH	0.10	0.00
tblVehicleEF	MH	0.50	0.00
tblVehicleEF	MH	0.11	0.08
tblVehicleEF	MH	0.03	0.00
tblVehicleEF	MH	0.36	0.00
tblVehicleEF	MHD	0.02	2.7360e-003
tblVehicleEF	MHD	3.1970e-003	3.0240e-003
tblVehicleEF	MHD	0.05	7.0010e-003
tblVehicleEF	MHD	0.35	0.32
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.47	0.82
tblVehicleEF	MHD	152.51	70.86
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.06
tblVehicleEF	MHD	0.61	0.56
tblVehicleEF	MHD	0.89	1.59
tblVehicleEF	MHD	11.52	1.41
tblVehicleEF	MHD	9.8000e-004	1.4660e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	9.3700e-004	1.4030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004

tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.33	0.04
tblVehicleEF	MHD	1.4660e-003	6.7200e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4200e-004	7.0000e-005
tblVehicleEF	MHD	1.6000e-003	4.3900e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	8.0100e-004	2.3500e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.36	0.04
tblVehicleEF	MHD	0.02	2.6030e-003
tblVehicleEF	MHD	3.2380e-003	3.0420e-003
tblVehicleEF	MHD	0.05	6.7280e-003
tblVehicleEF	MHD	0.25	0.27
tblVehicleEF	MHD	0.25	0.31
tblVehicleEF	MHD	5.23	0.77
tblVehicleEF	MHD	161.54	71.77
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	6.98
tblVehicleEF	MHD	0.63	0.57
tblVehicleEF	MHD	0.83	1.50

tblVehicleEF	MHD	11.50	1.41
tblVehicleEF	MHD	8.2600e-004	1.2390e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	7.9000e-004	1.1850e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.02	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.32	0.04
tblVehicleEF	MHD	1.5510e-003	6.8000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.3800e-004	6.9000e-005
tblVehicleEF	MHD	3.0890e-003	7.9100e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	1.5560e-003	4.6400e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.35	0.04
tblVehicleEF	MHD	0.02	2.9320e-003
tblVehicleEF	MHD	3.1690e-003	3.0250e-003
tblVehicleEF	MHD	0.05	6.9370e-003

tblVehicleEF	MHD	0.48	0.39
tblVehicleEF	MHD	0.24	0.31
tblVehicleEF	MHD	5.56	0.81
tblVehicleEF	MHD	140.03	69.60
tblVehicleEF	MHD	1,062.94	946.77
tblVehicleEF	MHD	54.61	7.04
tblVehicleEF	MHD	0.58	0.56
tblVehicleEF	MHD	0.88	1.57
tblVehicleEF	MHD	11.53	1.41
tblVehicleEF	MHD	1.1920e-003	1.7800e-003
tblVehicleEF	MHD	5.7040e-003	0.05
tblVehicleEF	MHD	7.4900e-004	8.2000e-005
tblVehicleEF	MHD	1.1400e-003	1.7030e-003
tblVehicleEF	MHD	5.4540e-003	0.04
tblVehicleEF	MHD	6.8900e-004	7.5000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02
tblVehicleEF	MHD	0.03	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.05
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.34	0.04
tblVehicleEF	MHD	1.3480e-003	6.6000e-004
tblVehicleEF	MHD	0.01	8.9930e-003
tblVehicleEF	MHD	6.4300e-004	7.0000e-005
tblVehicleEF	MHD	1.1940e-003	4.6300e-004
tblVehicleEF	MHD	0.05	0.02

tblVehicleEF	MHD	0.04	0.02
tblVehicleEF	MHD	6.2900e-004	2.4800e-004
tblVehicleEF	MHD	0.03	0.06
tblVehicleEF	MHD	0.02	0.08
tblVehicleEF	MHD	0.37	0.04
tblVehicleEF	OBUS	0.01	8.6190e-003
tblVehicleEF	OBUS	6.8270e-003	7.1940e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.27	0.48
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.79	2.73
tblVehicleEF	OBUS	74.97	66.93
tblVehicleEF	OBUS	1,092.94	1,366.52
tblVehicleEF	OBUS	69.71	21.52
tblVehicleEF	OBUS	0.31	0.30
tblVehicleEF	OBUS	0.97	1.35
tblVehicleEF	OBUS	2.13	0.63
tblVehicleEF	OBUS	6.8000e-005	5.7600e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	6.5000e-005	5.5200e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003

tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	7.2800e-004	6.3900e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	2.1110e-003	2.6570e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	9.1000e-004	1.1650e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.39	0.14
tblVehicleEF	OBUS	0.01	8.6710e-003
tblVehicleEF	OBUS	6.9570e-003	7.3440e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.26	0.47
tblVehicleEF	OBUS	0.46	0.88
tblVehicleEF	OBUS	5.41	2.54
tblVehicleEF	OBUS	78.41	66.84
tblVehicleEF	OBUS	1,092.94	1,366.56
tblVehicleEF	OBUS	69.71	21.19
tblVehicleEF	OBUS	0.32	0.29
tblVehicleEF	OBUS	0.91	1.26
tblVehicleEF	OBUS	2.10	0.62
tblVehicleEF	OBUS	5.7000e-005	4.8900e-004
tblVehicleEF	OBUS	5.0070e-003	0.02

tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	5.4000e-005	4.6800e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.34	0.12
tblVehicleEF	OBUS	7.6000e-004	6.3800e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9200e-004	2.1000e-004
tblVehicleEF	OBUS	3.9250e-003	4.6820e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.07
tblVehicleEF	OBUS	1.7420e-003	2.2520e-003
tblVehicleEF	OBUS	0.04	0.08
tblVehicleEF	OBUS	0.05	0.29
tblVehicleEF	OBUS	0.38	0.14
tblVehicleEF	OBUS	0.01	8.5850e-003
tblVehicleEF	OBUS	6.8060e-003	7.2070e-003
tblVehicleEF	OBUS	0.03	0.02
tblVehicleEF	OBUS	0.28	0.49
tblVehicleEF	OBUS	0.46	0.87
tblVehicleEF	OBUS	5.84	2.72

tblVehicleEF	OBUS	70.22	67.05
tblVehicleEF	OBUS	1,092.94	1,366.53
tblVehicleEF	OBUS	69.71	21.50
tblVehicleEF	OBUS	0.29	0.31
tblVehicleEF	OBUS	0.97	1.33
tblVehicleEF	OBUS	2.13	0.62
tblVehicleEF	OBUS	8.2000e-005	6.9700e-004
tblVehicleEF	OBUS	5.0070e-003	0.02
tblVehicleEF	OBUS	8.4500e-004	2.1400e-004
tblVehicleEF	OBUS	7.9000e-005	6.6700e-004
tblVehicleEF	OBUS	4.7740e-003	0.02
tblVehicleEF	OBUS	7.7700e-004	1.9600e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.04	0.05
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.03	0.06
tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.36	0.13
tblVehicleEF	OBUS	6.8200e-004	6.4000e-004
tblVehicleEF	OBUS	0.01	0.01
tblVehicleEF	OBUS	7.9900e-004	2.1300e-004
tblVehicleEF	OBUS	1.8300e-003	2.7860e-003
tblVehicleEF	OBUS	0.02	0.03
tblVehicleEF	OBUS	0.05	0.06
tblVehicleEF	OBUS	8.3900e-004	1.2410e-003
tblVehicleEF	OBUS	0.04	0.08

tblVehicleEF	OBUS	0.05	0.31
tblVehicleEF	OBUS	0.40	0.14
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8650e-003
tblVehicleEF	SBUS	0.06	8.0490e-003
tblVehicleEF	SBUS	7.82	3.40
tblVehicleEF	SBUS	0.60	0.57
tblVehicleEF	SBUS	6.53	1.09
tblVehicleEF	SBUS	1,137.52	372.28
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.95
tblVehicleEF	SBUS	9.42	3.42
tblVehicleEF	SBUS	4.31	4.61
tblVehicleEF	SBUS	12.32	0.72
tblVehicleEF	SBUS	9.5680e-003	3.6140e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	9.1540e-003	3.4580e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.10	0.10

tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.36	0.05
tblVehicleEF	SBUS	0.01	3.5600e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.5900e-004	6.9000e-005
tblVehicleEF	SBUS	4.8460e-003	1.4760e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	2.2980e-003	7.3900e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.06
tblVehicleEF	SBUS	0.39	0.05
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.9520e-003
tblVehicleEF	SBUS	0.05	6.7100e-003
tblVehicleEF	SBUS	7.71	3.36
tblVehicleEF	SBUS	0.61	0.58
tblVehicleEF	SBUS	4.73	0.78
tblVehicleEF	SBUS	1,189.12	382.15
tblVehicleEF	SBUS	1,098.11	1,106.72
tblVehicleEF	SBUS	54.55	6.44
tblVehicleEF	SBUS	9.72	3.51
tblVehicleEF	SBUS	4.05	4.33
tblVehicleEF	SBUS	12.29	0.71
tblVehicleEF	SBUS	8.0660e-003	3.0540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03

tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	7.7170e-003	2.9220e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.92	0.41
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.30	0.04
tblVehicleEF	SBUS	0.01	3.6540e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.2900e-004	6.4000e-005
tblVehicleEF	SBUS	8.7430e-003	2.5870e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	1.33	0.59
tblVehicleEF	SBUS	4.2770e-003	1.3760e-003
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.01	0.06
tblVehicleEF	SBUS	0.33	0.04
tblVehicleEF	SBUS	0.82	0.09
tblVehicleEF	SBUS	0.01	6.8630e-003
tblVehicleEF	SBUS	0.06	8.1930e-003
tblVehicleEF	SBUS	7.98	3.46
tblVehicleEF	SBUS	0.60	0.57

tblVehicleEF	SBUS	6.89	1.11
tblVehicleEF	SBUS	1,066.27	358.65
tblVehicleEF	SBUS	1,098.11	1,106.71
tblVehicleEF	SBUS	54.55	6.99
tblVehicleEF	SBUS	9.00	3.31
tblVehicleEF	SBUS	4.26	4.54
tblVehicleEF	SBUS	12.33	0.72
tblVehicleEF	SBUS	0.01	4.3890e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.7600e-004	4.6000e-005
tblVehicleEF	SBUS	0.01	4.1990e-003
tblVehicleEF	SBUS	2.6910e-003	2.6470e-003
tblVehicleEF	SBUS	0.02	0.03
tblVehicleEF	SBUS	4.3700e-004	4.2000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01
tblVehicleEF	SBUS	0.93	0.41
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.10	0.10
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.37	0.05
tblVehicleEF	SBUS	0.01	3.4320e-003
tblVehicleEF	SBUS	0.01	0.01
tblVehicleEF	SBUS	6.6500e-004	6.9000e-005
tblVehicleEF	SBUS	4.2260e-003	1.3980e-003
tblVehicleEF	SBUS	0.03	0.01

tblVehicleEF	SBUS	1.34	0.59
tblVehicleEF	SBUS	2.2070e-003	7.6500e-004
tblVehicleEF	SBUS	0.12	0.11
tblVehicleEF	SBUS	0.02	0.08
tblVehicleEF	SBUS	0.41	0.05
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.89	23.58
tblVehicleEF	UBUS	14.42	1.90
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.35
tblVehicleEF	UBUS	4.15	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.13	0.10

tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8000e-003	2.3100e-004
tblVehicleEF	UBUS	9.4280e-003	2.7000e-003
tblVehicleEF	UBUS	0.11	0.02
tblVehicleEF	UBUS	4.6810e-003	1.0930e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.02	0.08
tblVehicleEF	UBUS	1.23	0.11
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.02
tblVehicleEF	UBUS	7.95	23.58
tblVehicleEF	UBUS	12.35	1.62
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	22.87
tblVehicleEF	UBUS	3.87	0.30
tblVehicleEF	UBUS	12.22	0.22
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

tblVehicleEF	UBUS	0.47	0.05
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.03	0.09
tblVehicleEF	UBUS	9.6710e-003	6.3860e-003
tblVehicleEF	UBUS	1.7640e-003	2.2600e-004
tblVehicleEF	UBUS	0.02	4.7970e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	9.3920e-003	2.1760e-003
tblVehicleEF	UBUS	1.95	3.11
tblVehicleEF	UBUS	0.02	0.07
tblVehicleEF	UBUS	1.12	0.10
tblVehicleEF	UBUS	1.44	3.04
tblVehicleEF	UBUS	0.08	0.03
tblVehicleEF	UBUS	7.88	23.58
tblVehicleEF	UBUS	14.60	1.89
tblVehicleEF	UBUS	1,799.80	1,641.14
tblVehicleEF	UBUS	153.89	23.33
tblVehicleEF	UBUS	4.12	0.30
tblVehicleEF	UBUS	12.31	0.23
tblVehicleEF	UBUS	0.49	0.09
tblVehicleEF	UBUS	0.01	0.02
tblVehicleEF	UBUS	0.04	2.1620e-003
tblVehicleEF	UBUS	1.4590e-003	2.1000e-004
tblVehicleEF	UBUS	0.21	0.04
tblVehicleEF	UBUS	3.0000e-003	5.0570e-003
tblVehicleEF	UBUS	0.04	2.0490e-003
tblVehicleEF	UBUS	1.3420e-003	1.9300e-004

tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	0.46	0.05
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.13	0.10
tblVehicleEF	UBUS	9.6700e-003	6.3860e-003
tblVehicleEF	UBUS	1.8030e-003	2.3100e-004
tblVehicleEF	UBUS	8.6090e-003	2.7590e-003
tblVehicleEF	UBUS	0.13	0.02
tblVehicleEF	UBUS	4.2750e-003	1.1470e-003
tblVehicleEF	UBUS	1.94	3.11
tblVehicleEF	UBUS	0.03	0.09
tblVehicleEF	UBUS	1.24	0.11
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TL	16.60	40.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.96

tblVehicleTrips	ST_TR	1.68	0.64
tblVehicleTrips	SU_TR	1.68	0.96
tblVehicleTrips	SU_TR	1.68	0.64
tblVehicleTrips	WD_TR	1.68	0.96
tblVehicleTrips	WD_TR	1.68	0.64

2.0 Emissions Summary

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.1234**	**183.8388**	**36.7719**	**0.8028**	**29.2126**	**2.5471**	**31.7597**	**8.1930**	**2.4324**	**10.6254**		**85,138.4180**	**85,138.4180**	**0.7692**	**0.0253**	**85,165.1758**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Energy	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
Mobile	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Offroad	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**34.1234**	**183.8388**	**36.7719**	**0.8028**	**29.2126**	**2.5471**	**31.7597**	**8.1930**	**2.4324**	**10.6254**		**85,138.4180**	**85,138.4180**	**0.7692**	**0.0253**	**85,165.1758**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2021	9/6/2021	5	70	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 43.66

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	0	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**		**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554
Unmitigated	4.4832	176.3492	31.6465	0.7800	29.2126	2.2398	31.4524	8.1930	2.1426	10.3356		82,225.9396	82,225.9396	0.2446		82,232.0554

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	48.00	48.00	48.00	698,880	698,880
Unrefrigerated Warehouse-No Rail	776.49	776.49	776.49	11,305,735	11,305,735
Total	824.49	824.49	824.49	12,004,615	12,004,615

4.3 Trip Type Information

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	40.00	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Parking Lot	0.545527	0.036856	0.186032	0.115338	0.015222	0.004970	0.017525	0.069528	0.001397	0.001160	0.004547	0.000932	0.000965
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.166700	0.000000	0.229200	0.604100	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.206300	0.000000	0.178400	0.615300	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395
NaturalGas Unmitigated	0.1263	1.1481	0.9644	6.8900e-003		0.0873	0.0873		0.0873	0.0873		1,377.7522	1,377.7522	0.0264	0.0253	1,385.9395

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6957.53	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4753.36	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	6.95753	0.0750	0.6821	0.5730	4.0900e-003		0.0518	0.0518		0.0518	0.0518		818.5334	818.5334	0.0157	0.0150	823.3976
Unrefrigerated Warehouse-No Rail	4.75336	0.0513	0.4660	0.3915	2.8000e-003		0.0354	0.0354		0.0354	0.0354		559.2187	559.2187	0.0107	0.0103	562.5419
Total		**0.1263**	**1.1481**	**0.9644**	**6.8900e-003**		**0.0873**	**0.0873**		**0.0873**	**0.0873**		**1,377.7522**	**1,377.7522**	**0.0264**	**0.0253**	**1,385.9395**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Unmitigated	28.9039	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.3232					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	25.5465					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0342	3.3600e-003	0.3680	3.0000e-005		1.3100e-003	1.3100e-003		1.3100e-003	1.3100e-003		0.7876	0.7876	2.0800e-003		0.8395
Total	**28.9039**	**3.3600e-003**	**0.3680**	**3.0000e-005**		**1.3100e-003**	**1.3100e-003**		**1.3100e-003**	**1.3100e-003**		**0.7876**	**0.7876**	**2.0800e-003**		**0.8395**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	5	4.00	365	200	0.37	CNG

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	0.6101	6.3381	3.7930	0.0159		0.2187	0.2187		0.2012	0.2012		1,533.9387	1,533.9387	0.4961		1,546.3413
Total	**0.6101**	**6.3381**	**3.7930**	**0.0159**		**0.2187**	**0.2187**		**0.2012**	**0.2012**		**1,533.9387**	**1,533.9387**	**0.4961**		**1,546.3413**

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

ATTACHMENT B

HRA MODELING FILES

AVERAGE EMISSION FACTOR
RIVERSIDE 2022

Speed	LHD1	MHD	HHD
0	0.389075	0.130109	0.01485
5	0.037927	0.062152	0.04296
25	0.013603	0.0316	0.01812

Speed	Weighted Average Emissions
0	**0.11211**
5	**0.04541**
25	**0.01964**

Emission Rates - 2022 Emission Factors / Proposed Project (Warehouse)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates (g/second)
On-Site Idling	195			0.1126	5.49	6.355E-05
On-Site Travel	780	486.75	0.0453		22.07	2.555E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	312	289.97	0.0196		5.68	6.575E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	117	66.38	0.0196		1.30	1.505E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	195	110.63	0.0196		2.17	2.508E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	39	18.55	0.0196		0.36	4.206E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	117	34.74	0.0196		0.68	7.876E-06
Off-Site Travel 10% Inbound SR-60	39	11.39	0.0196		0.22	2.582E-06

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

Emission Rates - 2022 Emission Factors / Proposed Project (Cold Storage)

Truck Emission Rates						
Source	Trucks Per Day	VMT [a] (miles/day)	Truck Emission Rate [b] (grams/mile)	Truck Emission Rate [b] (grams/idle-hour)	Daily Truck Emissions [c] (grams/day)	Modeled Emission Rates [d] (g/second)
On-Site Idling	12			0.1036	1.39	1.611E-05
On-Site Travel	48	29.95	0.0465		1.83	2.113E-05
Off-Site Travel 40% Inbound/Outbound Dwy 1 to SR-60/Moreno Beach Dr.	19	17.84	0.0205		0.62	7.171E-06
Off-Site Travel 30% Inbound Dwy 1 from SR-60/Redlands	7	4.08	0.0205		0.14	1.630E-06
Off-Site Travel 50% Outbound Dwy 1 to SR-60/Redlands	12	6.81	0.0205		0.24	2.747E-06
Off-Site Travel 10% Outbound Dwy 5 to SR-60/Redlands	2	1.14	0.0205		0.04	4.289E-07
Off-Site Travel 30% Inbound Dwy 7 from SR-60/Redlands	7	2.14	0.0205		0.07	8.528E-07
Off-Site Travel 10% Inbound SR-60	2	0.70	0.0205		0.02	2.633E-07

[a] Vehicle miles traveled are for modeled truck route only.

[b] Emission rates determined using EMFAC 2017. Idle emission rates are expressed in grams per idle hour rather than grams per mile.

[c] This column includes the total truck travel and truck idle emissions. For idle emissions this column includes emissions based on the assumption that each truck idles for 15 minutes.

[d] This column includes TRU emissions expressed in grams per hour.

Proposed Project / Total Emissions	
On-Site Idling	7.966E-05
On-Site Travel	2.766E-04
Off-Site Travel 40% Inbound/Outbound Dwy 1 to	7.292E-05
Off-Site Travel 30% Inbound Dwy 1 from SR-60/F	1.668E-05
Off-Site Travel 50% Outbound Dwy 1 to SR-60/R	2.783E-05
Off-Site Travel 10% Outbound Dwy 5 to SR-60/R	4.634E-06
Off-Site Travel 30% Inbound Dwy 7 from SR-60/F	8.729E-06
Off-Site Travel 10% Inbound SR-60	2.845E-06

calendar_y	season_m	sub_area	vehicle_class	fuel	temperatu	relative_hu	process	speed_tim	pollutant	emission_rate
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	5	PM10	0.043461
2022	Annual	Riverside (	HHDT	Dsl	60	70	RUNEX	25	PM10	0.018326
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	5	PM10	0.076718
2022	Annual	Riverside (	LHDT1	Dsl	60	70	RUNEX	25	PM10	0.027515
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	5	PM10	0.070223
2022	Annual	Riverside (	MHDT	Dsl	60	70	RUNEX	25	PM10	0.035704
2022	Annual	Riverside (	HHDT	Dsl			IDLEX		PM10	0.015028
2022	Annual	Riverside (	LHDT1	Dsl			IDLEX		PM10	0.78701
2022	Annual	Riverside (	MHDT	Dsl			IDLEX		PM10	0.147006

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: County
Region: RIVERSIDE
Calendar Year: 2022
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calendar Y	Vehicle Ca	Model Yea	Speed	Fuel	Population
RIVERSID	2022	HHDT	Aggregate	Aggregate	GAS	7.255052
RIVERSID	2022	HHDT	Aggregate	Aggregate	DSL	27819.82
RIVERSID	2022	HHDT	Aggregate	Aggregate	NG	316.9854
RIVERSID	2022	LHDT1	Aggregate	Aggregate	GAS	20620.88
RIVERSID	2022	LHDT1	Aggregate	Aggregate	DSL	20161.77
RIVERSID	2022	MHDT	Aggregate	Aggregate	GAS	2027.159
RIVERSID	2022	MHDT	Aggregate	Aggregate	DSL	15610.04

HHDT% GAS/NG	0.01152
HHDT% DSL	0.98848
LHDT1% GAS	0.50563
LHDT1% DSL	0.49437
MHDT% GAS	0.11494
MHDT% DSL	0.88506

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Table 1
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
-0.25 to 0 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			$(ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.3E-06	4.2E-08	5.0E+00	1.4E-03	7.7E-04							
TOTAL								4.24E-08			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								4.24E-02										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	0.25
inhalation rate (L/kg-day))	361
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (age third trimester	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 2
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
0-2 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	4.0E-06	1.0E-06	5.0E+00	1.4E-03	7.7E-04							
TOTAL								1.02E-06			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								1.02E+00										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	2
inhalation rate (L/kg-day))	1090
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.85
age sensitivity factor (0 to 2 years old)	10

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 3
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
2-16 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**								
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			($ug/m^3)^{-1}$	$(mg/kg/day)^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	2.1E-06	9.6E-07	5.0E+00	1.4E-03	7.7E-04							
TOTAL								9.55E-07			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								9.55E-01										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	572
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.72
age sensitivity factor (ages 2 to 16 years	3

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 4
Quantification of Carcinogenic Risks and Noncarcinogenic Hazards
16-30 Age Bin Exposure Scenario

Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
					URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
	(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
	0.00384	3.84E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	9.6E-07	1.5E-07	5.0E+00	1.4E-03	7.7E-04							
TOTAL								1.47E-07			7.7E-04	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
								0.15										

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	350
exposure duration (years)	14
inhalation rate (L/kg-day))	261
inhalation absorption factor	1
averaging time (years)	70
fraction of time at home	0.73
age sensitivity factor (ages 16 to 30 years old)	1

Total Risk for All Age Bins (per million) **2.17**

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

Table 5
Quantification of Carcinogenic Risks and Noncarcinogenic Risks
25-Year Worker Exposure Scenario

	Source	Mass GLC		Weight Fraction	Contaminant	Carcinogenic Risk				Noncarcinogenic Hazards/ Toxicological Endpoints**									
						URF	CPF	DOSE	RISK	REL	RfD	RESP	CNS/PNS	CV/BL	IMMUN	KIDN	GI/LV	REPRO	EYES
		(ug/m^3)	(mg/m^3)			(ug/m^3)$^{-1}$	(mg/kg/day)$^{-1}$	(mg/kg-day)		(ug/m^3)	(mg/kg/day)								
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
1	Diesel Particulates	7.03E-03	7.03E-06	1.00E+00	Diesel Particulate	3.0E-04	1.1E+00	1.1E-06	4.2E-07	5.0E+00	1.4E-03	1.4E-03							
	TOTAL								4.2E-07 0.42			1.4E-03	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

** Key to Toxicological Endpoints

RESP	Respiratory System
CNS/PNS	Central/Peripheral Nervous System
CV/BL	Cardiovascular/Blood System
IMMUN	Immune System
KIDN	Kidney
GI/LV	Gastrointestinal System/Liver
REPRO	Reproductive System (e.g. teratogenic and developmental effects)
EYES	Eye irritation and/or other effects

Note: Exposure factors used to calculate contaminant intake

exposure frequency (days/year)	250
exposure duration (years)	25
inhalation rate (L/kg-day))	230
inhalation absorption factor	1
averaging time (years)	70

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD INPUT PRODUCED BY:
** AERMOD VIEW VER. 10.2.1
** LAKES ENVIRONMENTAL SOFTWARE INC.
** DATE: 4/5/2022
** FILE: C:\LAKES\AERMOD VIEW\12974 HRA UPDATE\12974 FC (REV)\12974 FC.ADI
**
**************************************
**
**
**************************************
** AERMOD CONTROL PATHWAY
**************************************
**
**
CO STARTING
   TITLEONE C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
   MODELOPT DFAULT CONC
   AVERTIME ANNUAL
   URBANOPT 2189641
   POLLUTID OTHER
   RUNORNOT RUN
   ERRORFIL "12974 FC.ERR"
CO FINISHED
**
**************************************
** AERMOD SOURCE PATHWAY
**************************************
**
**
SO STARTING
** SOURCE LOCATION **
** SOURCE ID - TYPE - X COORD. - Y COORD. **
** ------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE1
** DESCRSRC ON-SITE IDLING
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00007966
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 484870.384, 3754955.198, 531.72, 3.49, 4.00
** 485351.136, 3754957.509, 528.00, 3.49, 4.00
** ------------------------------------------------------------------------
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
LOCATION L0006618     VOLUME   484874.679 3754955.219 531.63
LOCATION L0006619     VOLUME   484883.269 3754955.260 531.63
LOCATION L0006620     VOLUME   484891.859 3754955.301 531.63
LOCATION L0006621     VOLUME   484900.449 3754955.342 531.63
LOCATION L0006622     VOLUME   484909.039 3754955.384 531.63
LOCATION L0006623     VOLUME   484917.629 3754955.425 531.64
LOCATION L0006624     VOLUME   484926.219 3754955.466 531.64
LOCATION L0006625     VOLUME   484934.809 3754955.508 531.64
LOCATION L0006626     VOLUME   484943.398 3754955.549 531.64
LOCATION L0006627     VOLUME   484951.988 3754955.590 531.64
LOCATION L0006628     VOLUME   484960.578 3754955.632 531.63
LOCATION L0006629     VOLUME   484969.168 3754955.673 531.34
LOCATION L0006630     VOLUME   484977.758 3754955.714 531.06
LOCATION L0006631     VOLUME   484986.348 3754955.755 530.77
LOCATION L0006632     VOLUME   484994.938 3754955.797 530.65
LOCATION L0006633     VOLUME   485003.528 3754955.838 530.65
LOCATION L0006634     VOLUME   485012.118 3754955.879 530.65
LOCATION L0006635     VOLUME   485020.708 3754955.921 530.65
LOCATION L0006636     VOLUME   485029.297 3754955.962 530.65
LOCATION L0006637     VOLUME   485037.887 3754956.003 530.65
LOCATION L0006638     VOLUME   485046.477 3754956.045 530.66
LOCATION L0006639     VOLUME   485055.067 3754956.086 530.66
LOCATION L0006640     VOLUME   485063.657 3754956.127 530.66
LOCATION L0006641     VOLUME   485072.247 3754956.168 530.66
LOCATION L0006642     VOLUME   485080.837 3754956.210 530.64
LOCATION L0006643     VOLUME   485089.427 3754956.251 530.46
LOCATION L0006644     VOLUME   485098.017 3754956.292 530.27
LOCATION L0006645     VOLUME   485106.607 3754956.334 530.08
LOCATION L0006646     VOLUME   485115.196 3754956.375 529.94
LOCATION L0006647     VOLUME   485123.786 3754956.416 529.85
LOCATION L0006648     VOLUME   485132.376 3754956.458 529.75
LOCATION L0006649     VOLUME   485140.966 3754956.499 529.67
LOCATION L0006650     VOLUME   485149.556 3754956.540 529.67
LOCATION L0006651     VOLUME   485158.146 3754956.581 529.67
LOCATION L0006652     VOLUME   485166.736 3754956.623 529.68
LOCATION L0006653     VOLUME   485175.326 3754956.664 529.68
LOCATION L0006654     VOLUME   485183.916 3754956.705 529.68
LOCATION L0006655     VOLUME   485192.506 3754956.747 529.68
LOCATION L0006656     VOLUME   485201.096 3754956.788 529.66
LOCATION L0006657     VOLUME   485209.685 3754956.829 529.46
LOCATION L0006658     VOLUME   485218.275 3754956.871 529.27
LOCATION L0006659     VOLUME   485226.865 3754956.912 529.07
LOCATION L0006660     VOLUME   485235.455 3754956.953 528.94
LOCATION L0006661     VOLUME   485244.045 3754956.994 528.85
LOCATION L0006662     VOLUME   485252.635 3754957.036 528.77
LOCATION L0006663     VOLUME   485261.225 3754957.077 528.69
LOCATION L0006664     VOLUME   485269.815 3754957.118 528.69
LOCATION L0006665     VOLUME   485278.405 3754957.160 528.69
LOCATION L0006666     VOLUME   485286.995 3754957.201 528.69
LOCATION L0006667     VOLUME   485295.584 3754957.242 528.57
```

```
   LOCATION L0006668     VOLUME   485304.174 3754957.283 528.37
   LOCATION L0006669     VOLUME   485312.764 3754957.325 528.17
   LOCATION L0006670     VOLUME   485321.354 3754957.366 528.00
   LOCATION L0006671     VOLUME   485329.944 3754957.407 528.00
   LOCATION L0006672     VOLUME   485338.534 3754957.449 528.00
   LOCATION L0006673     VOLUME   485347.124 3754957.490 528.00
** END OF LINE VOLUME SOURCE ID = SLINE1
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE3
** DESCRSRC ON-SITE TRAVEL
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.0002766
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 6
** 484772.539, 3754992.949, 533.00, 3.49, 4.00
** 484772.561, 3754950.640, 532.45, 3.49, 4.00
** 484836.339, 3754968.912, 531.98, 3.49, 4.00
** 485414.068, 3754970.607, 527.98, 3.49, 4.00
** 485413.600, 3754719.105, 522.78, 3.49, 4.00
** 485480.026, 3754719.385, 521.83, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007433     VOLUME   484772.541 3754988.654 533.00
   LOCATION L0007434     VOLUME   484772.546 3754980.064 533.00
   LOCATION L0007435     VOLUME   484772.550 3754971.474 533.00
   LOCATION L0007436     VOLUME   484772.555 3754962.884 532.88
   LOCATION L0007437     VOLUME   484772.559 3754954.294 532.60
   LOCATION L0007438     VOLUME   484777.306 3754952.000 532.52
   LOCATION L0007439     VOLUME   484785.564 3754954.365 532.49
   LOCATION L0007440     VOLUME   484793.822 3754956.731 532.37
   LOCATION L0007441     VOLUME   484802.080 3754959.097 532.20
   LOCATION L0007442     VOLUME   484810.337 3754961.463 532.00
   LOCATION L0007443     VOLUME   484818.595 3754963.828 531.98
   LOCATION L0007444     VOLUME   484826.853 3754966.194 532.00
   LOCATION L0007445     VOLUME   484835.111 3754968.560 532.07
   LOCATION L0007446     VOLUME   484843.651 3754968.933 532.09
   LOCATION L0007447     VOLUME   484852.241 3754968.959 532.09
   LOCATION L0007448     VOLUME   484860.831 3754968.984 532.09
   LOCATION L0007449     VOLUME   484869.421 3754969.009 532.09
   LOCATION L0007450     VOLUME   484878.011 3754969.034 532.09
   LOCATION L0007451     VOLUME   484886.601 3754969.059 532.09
   LOCATION L0007452     VOLUME   484895.191 3754969.085 532.09
   LOCATION L0007453     VOLUME   484903.781 3754969.110 532.09
   LOCATION L0007454     VOLUME   484912.371 3754969.135 532.09
   LOCATION L0007455     VOLUME   484920.961 3754969.160 532.09
   LOCATION L0007456     VOLUME   484929.551 3754969.185 532.09
   LOCATION L0007457     VOLUME   484938.141 3754969.211 532.07
```

```
LOCATION L0007458     VOLUME   484946.731 3754969.236 532.04
LOCATION L0007459     VOLUME   484955.321 3754969.261 532.02
LOCATION L0007460     VOLUME   484963.911 3754969.286 531.88
LOCATION L0007461     VOLUME   484972.501 3754969.311 531.63
LOCATION L0007462     VOLUME   484981.091 3754969.337 531.37
LOCATION L0007463     VOLUME   484989.681 3754969.362 531.11
LOCATION L0007464     VOLUME   484998.271 3754969.387 531.10
LOCATION L0007465     VOLUME   485006.861 3754969.412 531.10
LOCATION L0007466     VOLUME   485015.451 3754969.437 531.10
LOCATION L0007467     VOLUME   485024.041 3754969.463 531.09
LOCATION L0007468     VOLUME   485032.630 3754969.488 531.06
LOCATION L0007469     VOLUME   485041.220 3754969.513 531.03
LOCATION L0007470     VOLUME   485049.810 3754969.538 531.00
LOCATION L0007471     VOLUME   485058.400 3754969.563 531.00
LOCATION L0007472     VOLUME   485066.990 3754969.589 531.00
LOCATION L0007473     VOLUME   485075.580 3754969.614 531.00
LOCATION L0007474     VOLUME   485084.170 3754969.639 530.88
LOCATION L0007475     VOLUME   485092.760 3754969.664 530.62
LOCATION L0007476     VOLUME   485101.350 3754969.689 530.37
LOCATION L0007477     VOLUME   485109.940 3754969.715 530.12
LOCATION L0007478     VOLUME   485118.530 3754969.740 530.11
LOCATION L0007479     VOLUME   485127.120 3754969.765 530.11
LOCATION L0007480     VOLUME   485135.710 3754969.790 530.11
LOCATION L0007481     VOLUME   485144.300 3754969.815 530.10
LOCATION L0007482     VOLUME   485152.890 3754969.841 530.07
LOCATION L0007483     VOLUME   485161.480 3754969.866 530.03
LOCATION L0007484     VOLUME   485170.070 3754969.891 530.00
LOCATION L0007485     VOLUME   485178.660 3754969.916 530.00
LOCATION L0007486     VOLUME   485187.250 3754969.941 530.00
LOCATION L0007487     VOLUME   485195.840 3754969.967 530.00
LOCATION L0007488     VOLUME   485204.430 3754969.992 529.87
LOCATION L0007489     VOLUME   485213.020 3754970.017 529.62
LOCATION L0007490     VOLUME   485221.610 3754970.042 529.37
LOCATION L0007491     VOLUME   485230.200 3754970.067 529.12
LOCATION L0007492     VOLUME   485238.790 3754970.093 529.12
LOCATION L0007493     VOLUME   485247.380 3754970.118 529.13
LOCATION L0007494     VOLUME   485255.970 3754970.143 529.13
LOCATION L0007495     VOLUME   485264.559 3754970.168 529.11
LOCATION L0007496     VOLUME   485273.149 3754970.193 529.07
LOCATION L0007497     VOLUME   485281.739 3754970.219 529.04
LOCATION L0007498     VOLUME   485290.329 3754970.244 528.99
LOCATION L0007499     VOLUME   485298.919 3754970.269 528.74
LOCATION L0007500     VOLUME   485307.509 3754970.294 528.50
LOCATION L0007501     VOLUME   485316.099 3754970.319 528.25
LOCATION L0007502     VOLUME   485324.689 3754970.344 528.13
LOCATION L0007503     VOLUME   485333.279 3754970.370 528.13
LOCATION L0007504     VOLUME   485341.869 3754970.395 528.13
LOCATION L0007505     VOLUME   485350.459 3754970.420 528.14
LOCATION L0007506     VOLUME   485359.049 3754970.445 528.14
LOCATION L0007507     VOLUME   485367.639 3754970.470 528.14
```

```
   LOCATION L0007508     VOLUME   485376.229 3754970.496 528.14
   LOCATION L0007509     VOLUME   485384.819 3754970.521 528.12
   LOCATION L0007510     VOLUME   485393.409 3754970.546 528.08
   LOCATION L0007511     VOLUME   485401.999 3754970.571 528.04
   LOCATION L0007512     VOLUME   485410.589 3754970.596 528.00
   LOCATION L0007513     VOLUME   485414.058 3754965.495 527.97
   LOCATION L0007514     VOLUME   485414.042 3754956.905 527.68
   LOCATION L0007515     VOLUME   485414.026 3754948.315 527.40
   LOCATION L0007516     VOLUME   485414.010 3754939.726 527.11
   LOCATION L0007517     VOLUME   485413.994 3754931.136 526.98
   LOCATION L0007518     VOLUME   485413.978 3754922.546 526.94
   LOCATION L0007519     VOLUME   485413.962 3754913.956 526.90
   LOCATION L0007520     VOLUME   485413.946 3754905.366 526.84
   LOCATION L0007521     VOLUME   485413.930 3754896.776 526.59
   LOCATION L0007522     VOLUME   485413.915 3754888.186 526.34
   LOCATION L0007523     VOLUME   485413.899 3754879.596 526.09
   LOCATION L0007524     VOLUME   485413.883 3754871.006 525.82
   LOCATION L0007525     VOLUME   485413.867 3754862.416 525.54
   LOCATION L0007526     VOLUME   485413.851 3754853.826 525.25
   LOCATION L0007527     VOLUME   485413.835 3754845.236 525.00
   LOCATION L0007528     VOLUME   485413.819 3754836.646 525.00
   LOCATION L0007529     VOLUME   485413.803 3754828.056 525.00
   LOCATION L0007530     VOLUME   485413.787 3754819.466 525.00
   LOCATION L0007531     VOLUME   485413.771 3754810.876 524.82
   LOCATION L0007532     VOLUME   485413.755 3754802.286 524.53
   LOCATION L0007533     VOLUME   485413.739 3754793.696 524.24
   LOCATION L0007534     VOLUME   485413.723 3754785.106 523.96
   LOCATION L0007535     VOLUME   485413.707 3754776.516 523.67
   LOCATION L0007536     VOLUME   485413.691 3754767.926 523.39
   LOCATION L0007537     VOLUME   485413.675 3754759.336 523.10
   LOCATION L0007538     VOLUME   485413.659 3754750.746 522.98
   LOCATION L0007539     VOLUME   485413.643 3754742.156 522.94
   LOCATION L0007540     VOLUME   485413.627 3754733.566 522.91
   LOCATION L0007541     VOLUME   485413.611 3754724.976 522.84
   LOCATION L0007542     VOLUME   485416.319 3754719.116 522.60
   LOCATION L0007543     VOLUME   485424.909 3754719.153 522.38
   LOCATION L0007544     VOLUME   485433.499 3754719.189 522.17
   LOCATION L0007545     VOLUME   485442.089 3754719.225 521.98
   LOCATION L0007546     VOLUME   485450.679 3754719.262 521.92
   LOCATION L0007547     VOLUME   485459.269 3754719.298 521.85
   LOCATION L0007548     VOLUME   485467.859 3754719.334 521.78
   LOCATION L0007549     VOLUME   485476.449 3754719.370 521.77
** END OF LINE VOLUME SOURCE ID = SLINE3
** ------------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE4
** DESCRSRC 40% INBOUND/OUTBOUND DWY 1 TO SR-60/MORENO BEACH DR.
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
```

```
** EMISSION RATE = 0.00007292
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 14
** 484769.457, 3755016.833, 533.83, 3.49, 4.00
** 484624.615, 3755019.915, 534.83, 3.49, 4.00
** 484545.260, 3755029.160, 534.97, 3.49, 4.00
** 484437.399, 3755063.059, 534.93, 3.49, 4.00
** 484328.768, 3755112.367, 536.95, 3.49, 4.00
** 484294.098, 3755127.776, 536.94, 3.49, 4.00
** 484291.628, 3755128.293, 536.93, 3.49, 4.00
** 484223.200, 3755160.707, 537.60, 3.49, 4.00
** 484143.967, 3755193.120, 538.00, 3.49, 4.00
** 484071.937, 3755212.928, 537.93, 3.49, 4.00
** 483971.095, 3755220.131, 537.44, 3.49, 4.00
** 483717.190, 3755218.330, 536.93, 3.49, 4.00
** 483506.503, 3755223.733, 539.06, 3.49, 4.00
** 483510.104, 3755420.014, 547.91, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0006847     VOLUME   484765.163 3755016.924 533.68
   LOCATION L0006848     VOLUME   484756.575 3755017.107 533.69
   LOCATION L0006849     VOLUME   484747.987 3755017.290 533.70
   LOCATION L0006850     VOLUME   484739.399 3755017.472 533.70
   LOCATION L0006851     VOLUME   484730.811 3755017.655 533.71
   LOCATION L0006852     VOLUME   484722.223 3755017.838 533.72
   LOCATION L0006853     VOLUME   484713.635 3755018.021 533.78
   LOCATION L0006854     VOLUME   484705.047 3755018.203 533.86
   LOCATION L0006855     VOLUME   484696.459 3755018.386 533.94
   LOCATION L0006856     VOLUME   484687.871 3755018.569 534.00
   LOCATION L0006857     VOLUME   484679.283 3755018.751 534.00
   LOCATION L0006858     VOLUME   484670.695 3755018.934 534.00
   LOCATION L0006859     VOLUME   484662.107 3755019.117 534.00
   LOCATION L0006860     VOLUME   484653.518 3755019.300 534.17
   LOCATION L0006861     VOLUME   484644.930 3755019.482 534.39
   LOCATION L0006862     VOLUME   484636.342 3755019.665 534.61
   LOCATION L0006863     VOLUME   484627.754 3755019.848 534.78
   LOCATION L0006864     VOLUME   484619.202 3755020.545 534.81
   LOCATION L0006865     VOLUME   484610.669 3755021.539 534.84
   LOCATION L0006866     VOLUME   484602.137 3755022.533 534.87
   LOCATION L0006867     VOLUME   484593.605 3755023.527 534.90
   LOCATION L0006868     VOLUME   484585.072 3755024.521 534.94
   LOCATION L0006869     VOLUME   484576.540 3755025.516 534.97
   LOCATION L0006870     VOLUME   484568.008 3755026.510 535.00
   LOCATION L0006871     VOLUME   484559.476 3755027.504 535.00
   LOCATION L0006872     VOLUME   484550.943 3755028.498 535.00
   LOCATION L0006873     VOLUME   484542.524 3755030.020 535.00
   LOCATION L0006874     VOLUME   484534.329 3755032.595 535.00
   LOCATION L0006875     VOLUME   484526.134 3755035.171 535.00
   LOCATION L0006876     VOLUME   484517.939 3755037.746 535.00
   LOCATION L0006877     VOLUME   484509.745 3755040.322 535.00
```

```
LOCATION L0006878     VOLUME   484501.550 3755042.897 535.00
LOCATION L0006879     VOLUME   484493.355 3755045.473 535.00
LOCATION L0006880     VOLUME   484485.160 3755048.048 535.00
LOCATION L0006881     VOLUME   484476.965 3755050.624 535.00
LOCATION L0006882     VOLUME   484468.770 3755053.199 535.00
LOCATION L0006883     VOLUME   484460.576 3755055.775 535.00
LOCATION L0006884     VOLUME   484452.381 3755058.351 535.07
LOCATION L0006885     VOLUME   484444.186 3755060.926 535.15
LOCATION L0006886     VOLUME   484436.055 3755063.669 535.24
LOCATION L0006887     VOLUME   484428.233 3755067.219 535.36
LOCATION L0006888     VOLUME   484420.411 3755070.770 535.48
LOCATION L0006889     VOLUME   484412.589 3755074.320 535.60
LOCATION L0006890     VOLUME   484404.768 3755077.871 535.72
LOCATION L0006891     VOLUME   484396.946 3755081.421 535.83
LOCATION L0006892     VOLUME   484389.124 3755084.971 535.95
LOCATION L0006893     VOLUME   484381.302 3755088.522 536.07
LOCATION L0006894     VOLUME   484373.480 3755092.072 536.19
LOCATION L0006895     VOLUME   484365.658 3755095.623 536.31
LOCATION L0006896     VOLUME   484357.836 3755099.173 536.43
LOCATION L0006897     VOLUME   484350.014 3755102.723 536.54
LOCATION L0006898     VOLUME   484342.192 3755106.274 536.66
LOCATION L0006899     VOLUME   484334.370 3755109.824 536.78
LOCATION L0006900     VOLUME   484326.540 3755113.357 536.90
LOCATION L0006901     VOLUME   484318.691 3755116.846 537.00
LOCATION L0006902     VOLUME   484310.841 3755120.334 537.00
LOCATION L0006903     VOLUME   484302.991 3755123.823 537.00
LOCATION L0006904     VOLUME   484295.142 3755127.312 537.00
LOCATION L0006905     VOLUME   484287.178 3755130.401 537.00
LOCATION L0006906     VOLUME   484279.415 3755134.078 537.00
LOCATION L0006907     VOLUME   484271.651 3755137.756 537.00
LOCATION L0006908     VOLUME   484263.888 3755141.433 537.00
LOCATION L0006909     VOLUME   484256.125 3755145.110 537.00
LOCATION L0006910     VOLUME   484248.362 3755148.787 537.08
LOCATION L0006911     VOLUME   484240.599 3755152.465 537.20
LOCATION L0006912     VOLUME   484232.836 3755156.142 537.33
LOCATION L0006913     VOLUME   484225.073 3755159.819 537.45
LOCATION L0006914     VOLUME   484217.168 3755163.174 537.56
LOCATION L0006915     VOLUME   484209.217 3755166.427 537.67
LOCATION L0006916     VOLUME   484201.267 3755169.679 537.78
LOCATION L0006917     VOLUME   484193.316 3755172.932 537.88
LOCATION L0006918     VOLUME   484185.366 3755176.184 537.99
LOCATION L0006919     VOLUME   484177.415 3755179.436 538.00
LOCATION L0006920     VOLUME   484169.465 3755182.689 538.00
LOCATION L0006921     VOLUME   484161.514 3755185.941 538.00
LOCATION L0006922     VOLUME   484153.564 3755189.194 538.00
LOCATION L0006923     VOLUME   484145.614 3755192.446 538.00
LOCATION L0006924     VOLUME   484137.400 3755194.926 538.00
LOCATION L0006925     VOLUME   484129.117 3755197.204 538.00
LOCATION L0006926     VOLUME   484120.835 3755199.481 538.00
LOCATION L0006927     VOLUME   484112.552 3755201.759 537.96
```

```
LOCATION L0006928     VOLUME   484104.270 3755204.037 537.96
LOCATION L0006929     VOLUME   484095.987 3755206.314 538.00
LOCATION L0006930     VOLUME   484087.705 3755208.592 538.07
LOCATION L0006931     VOLUME   484079.422 3755210.870 538.15
LOCATION L0006932     VOLUME   484071.112 3755212.987 538.22
LOCATION L0006933     VOLUME   484062.544 3755213.599 538.24
LOCATION L0006934     VOLUME   484053.976 3755214.211 538.26
LOCATION L0006935     VOLUME   484045.408 3755214.823 538.28
LOCATION L0006936     VOLUME   484036.839 3755215.435 538.30
LOCATION L0006937     VOLUME   484028.271 3755216.047 538.30
LOCATION L0006938     VOLUME   484019.703 3755216.659 538.22
LOCATION L0006939     VOLUME   484011.135 3755217.271 538.13
LOCATION L0006940     VOLUME   484002.567 3755217.883 538.03
LOCATION L0006941     VOLUME   483993.999 3755218.495 537.88
LOCATION L0006942     VOLUME   483985.430 3755219.107 537.72
LOCATION L0006943     VOLUME   483976.862 3755219.719 537.57
LOCATION L0006944     VOLUME   483968.287 3755220.111 537.46
LOCATION L0006945     VOLUME   483959.697 3755220.050 537.46
LOCATION L0006946     VOLUME   483951.107 3755219.989 537.45
LOCATION L0006947     VOLUME   483942.518 3755219.928 537.45
LOCATION L0006948     VOLUME   483933.928 3755219.868 537.45
LOCATION L0006949     VOLUME   483925.338 3755219.807 537.45
LOCATION L0006950     VOLUME   483916.748 3755219.746 537.45
LOCATION L0006951     VOLUME   483908.159 3755219.685 537.44
LOCATION L0006952     VOLUME   483899.569 3755219.624 537.44
LOCATION L0006953     VOLUME   483890.979 3755219.563 537.44
LOCATION L0006954     VOLUME   483882.389 3755219.502 537.44
LOCATION L0006955     VOLUME   483873.799 3755219.441 537.44
LOCATION L0006956     VOLUME   483865.210 3755219.380 537.43
LOCATION L0006957     VOLUME   483856.620 3755219.319 537.43
LOCATION L0006958     VOLUME   483848.030 3755219.258 537.40
LOCATION L0006959     VOLUME   483839.440 3755219.197 537.28
LOCATION L0006960     VOLUME   483830.850 3755219.137 537.15
LOCATION L0006961     VOLUME   483822.261 3755219.076 537.03
LOCATION L0006962     VOLUME   483813.671 3755219.015 536.88
LOCATION L0006963     VOLUME   483805.081 3755218.954 536.71
LOCATION L0006964     VOLUME   483796.491 3755218.893 536.54
LOCATION L0006965     VOLUME   483787.902 3755218.832 536.46
LOCATION L0006966     VOLUME   483779.312 3755218.771 536.62
LOCATION L0006967     VOLUME   483770.722 3755218.710 536.79
LOCATION L0006968     VOLUME   483762.132 3755218.649 536.96
LOCATION L0006969     VOLUME   483753.542 3755218.588 537.00
LOCATION L0006970     VOLUME   483744.953 3755218.527 537.00
LOCATION L0006971     VOLUME   483736.363 3755218.466 537.00
LOCATION L0006972     VOLUME   483727.773 3755218.405 537.00
LOCATION L0006973     VOLUME   483719.183 3755218.345 537.00
LOCATION L0006974     VOLUME   483710.596 3755218.500 537.00
LOCATION L0006975     VOLUME   483702.008 3755218.720 537.00
LOCATION L0006976     VOLUME   483693.421 3755218.940 537.00
LOCATION L0006977     VOLUME   483684.834 3755219.160 537.00
```

```
   LOCATION L0006978     VOLUME   483676.247 3755219.380 537.00
   LOCATION L0006979     VOLUME   483667.660 3755219.600 537.08
   LOCATION L0006980     VOLUME   483659.072 3755219.821 537.37
   LOCATION L0006981     VOLUME   483650.485 3755220.041 537.65
   LOCATION L0006982     VOLUME   483641.898 3755220.261 537.94
   LOCATION L0006983     VOLUME   483633.311 3755220.481 538.12
   LOCATION L0006984     VOLUME   483624.724 3755220.701 538.27
   LOCATION L0006985     VOLUME   483616.137 3755220.922 538.41
   LOCATION L0006986     VOLUME   483607.549 3755221.142 538.59
   LOCATION L0006987     VOLUME   483598.962 3755221.362 538.87
   LOCATION L0006988     VOLUME   483590.375 3755221.582 539.16
   LOCATION L0006989     VOLUME   483581.788 3755221.802 539.45
   LOCATION L0006990     VOLUME   483573.201 3755222.022 539.40
   LOCATION L0006991     VOLUME   483564.613 3755222.243 539.26
   LOCATION L0006992     VOLUME   483556.026 3755222.463 539.11
   LOCATION L0006993     VOLUME   483547.439 3755222.683 539.00
   LOCATION L0006994     VOLUME   483538.852 3755222.903 539.00
   LOCATION L0006995     VOLUME   483530.265 3755223.123 539.00
   LOCATION L0006996     VOLUME   483521.678 3755223.344 539.00
   LOCATION L0006997     VOLUME   483513.090 3755223.564 539.00
   LOCATION L0006998     VOLUME   483506.539 3755225.733 539.00
   LOCATION L0006999     VOLUME   483506.697 3755234.321 539.00
   LOCATION L0007000     VOLUME   483506.855 3755242.910 539.31
   LOCATION L0007001     VOLUME   483507.012 3755251.498 539.72
   LOCATION L0007002     VOLUME   483507.170 3755260.087 540.13
   LOCATION L0007003     VOLUME   483507.327 3755268.675 540.54
   LOCATION L0007004     VOLUME   483507.485 3755277.264 540.99
   LOCATION L0007005     VOLUME   483507.643 3755285.852 541.44
   LOCATION L0007006     VOLUME   483507.800 3755294.441 541.90
   LOCATION L0007007     VOLUME   483507.958 3755303.029 542.31
   LOCATION L0007008     VOLUME   483508.115 3755311.618 542.71
   LOCATION L0007009     VOLUME   483508.273 3755320.207 543.10
   LOCATION L0007010     VOLUME   483508.431 3755328.795 543.71
   LOCATION L0007011     VOLUME   483508.588 3755337.384 544.85
   LOCATION L0007012     VOLUME   483508.746 3755345.972 545.99
   LOCATION L0007013     VOLUME   483508.903 3755354.561 547.13
   LOCATION L0007014     VOLUME   483509.061 3755363.149 547.59
   LOCATION L0007015     VOLUME   483509.218 3755371.738 547.87
   LOCATION L0007016     VOLUME   483509.376 3755380.326 548.15
   LOCATION L0007017     VOLUME   483509.534 3755388.915 548.32
   LOCATION L0007018     VOLUME   483509.691 3755397.504 548.22
   LOCATION L0007019     VOLUME   483509.849 3755406.092 548.12
   LOCATION L0007020     VOLUME   483510.006 3755414.681 548.02
** END OF LINE VOLUME SOURCE ID = SLINE4
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE5
** DESCRSRC 30% INBOUND DWY 1. FROM SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
```

```
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00001668
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0007021     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0007022     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0007023     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0007024     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0007025     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0007026     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0007027     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0007028     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0007029     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0007030     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0007031     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0007032     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0007033     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0007034     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0007035     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0007036     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0007037     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0007038     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0007039     VOLUME   484936.742 3755019.225 532.95
   LOCATION L0007040     VOLUME   484945.332 3755019.267 532.88
   LOCATION L0007041     VOLUME   484953.922 3755019.309 532.81
   LOCATION L0007042     VOLUME   484962.512 3755019.351 532.77
   LOCATION L0007043     VOLUME   484971.102 3755019.393 532.77
   LOCATION L0007044     VOLUME   484979.692 3755019.435 532.77
   LOCATION L0007045     VOLUME   484988.282 3755019.477 532.77
   LOCATION L0007046     VOLUME   484996.872 3755019.519 532.77
   LOCATION L0007047     VOLUME   485005.462 3755019.561 532.77
   LOCATION L0007048     VOLUME   485014.051 3755019.603 532.77
   LOCATION L0007049     VOLUME   485022.641 3755019.645 532.69
   LOCATION L0007050     VOLUME   485031.231 3755019.687 532.41
   LOCATION L0007051     VOLUME   485039.821 3755019.729 532.12
   LOCATION L0007052     VOLUME   485048.411 3755019.771 531.84
   LOCATION L0007053     VOLUME   485057.001 3755019.813 531.78
   LOCATION L0007054     VOLUME   485065.591 3755019.855 531.78
   LOCATION L0007055     VOLUME   485074.181 3755019.897 531.78
   LOCATION L0007056     VOLUME   485082.771 3755019.939 531.79
   LOCATION L0007057     VOLUME   485091.361 3755019.981 531.79
   LOCATION L0007058     VOLUME   485099.950 3755020.023 531.79
   LOCATION L0007059     VOLUME   485108.540 3755020.065 531.79
   LOCATION L0007060     VOLUME   485117.130 3755020.107 531.61
   LOCATION L0007061     VOLUME   485125.720 3755020.149 531.38
```

```
LOCATION L0007062     VOLUME   485134.310 3755020.191 531.15
LOCATION L0007063     VOLUME   485142.900 3755020.233 530.98
LOCATION L0007064     VOLUME   485151.490 3755020.275 530.92
LOCATION L0007065     VOLUME   485160.080 3755020.317 530.87
LOCATION L0007066     VOLUME   485168.670 3755020.359 530.81
LOCATION L0007067     VOLUME   485177.260 3755020.401 530.80
LOCATION L0007068     VOLUME   485185.849 3755020.443 530.80
LOCATION L0007069     VOLUME   485194.439 3755020.485 530.80
LOCATION L0007070     VOLUME   485203.029 3755020.527 530.81
LOCATION L0007071     VOLUME   485211.619 3755020.569 530.81
LOCATION L0007072     VOLUME   485220.209 3755020.611 530.81
LOCATION L0007073     VOLUME   485228.799 3755020.653 530.81
LOCATION L0007074     VOLUME   485237.389 3755020.695 530.61
LOCATION L0007075     VOLUME   485245.979 3755020.737 530.38
LOCATION L0007076     VOLUME   485254.569 3755020.779 530.15
LOCATION L0007077     VOLUME   485263.158 3755020.821 529.98
LOCATION L0007078     VOLUME   485271.748 3755020.863 529.93
LOCATION L0007079     VOLUME   485280.338 3755020.905 529.88
LOCATION L0007080     VOLUME   485288.928 3755020.947 529.83
LOCATION L0007081     VOLUME   485297.518 3755020.989 529.82
LOCATION L0007082     VOLUME   485306.108 3755021.031 529.82
LOCATION L0007083     VOLUME   485314.698 3755021.073 529.82
LOCATION L0007084     VOLUME   485323.288 3755021.115 529.82
LOCATION L0007085     VOLUME   485331.878 3755021.157 529.83
LOCATION L0007086     VOLUME   485340.468 3755021.199 529.83
LOCATION L0007087     VOLUME   485349.057 3755021.241 529.83
LOCATION L0007088     VOLUME   485357.647 3755021.283 529.62
LOCATION L0007089     VOLUME   485366.237 3755021.325 529.38
LOCATION L0007090     VOLUME   485374.827 3755021.367 529.15
LOCATION L0007091     VOLUME   485383.417 3755021.409 528.98
LOCATION L0007092     VOLUME   485392.007 3755021.451 528.93
LOCATION L0007093     VOLUME   485400.597 3755021.493 528.89
LOCATION L0007094     VOLUME   485409.187 3755021.535 528.84
LOCATION L0007095     VOLUME   485417.777 3755021.577 528.84
LOCATION L0007096     VOLUME   485426.367 3755021.619 528.84
LOCATION L0007097     VOLUME   485434.956 3755021.661 528.84
LOCATION L0007098     VOLUME   485443.546 3755021.703 528.84
LOCATION L0007099     VOLUME   485452.136 3755021.745 528.85
LOCATION L0007100     VOLUME   485460.726 3755021.787 528.85
LOCATION L0007101     VOLUME   485469.316 3755021.829 528.85
LOCATION L0007102     VOLUME   485477.906 3755021.871 528.85
LOCATION L0007103     VOLUME   485486.496 3755021.913 528.85
LOCATION L0007104     VOLUME   485495.086 3755021.955 528.85
LOCATION L0007105     VOLUME   485503.676 3755021.997 528.85
LOCATION L0007106     VOLUME   485512.266 3755022.039 528.86
LOCATION L0007107     VOLUME   485514.201 3755028.569 529.00
LOCATION L0007108     VOLUME   485514.026 3755037.157 529.00
LOCATION L0007109     VOLUME   485513.851 3755045.745 529.00
LOCATION L0007110     VOLUME   485513.675 3755054.334 529.00
LOCATION L0007111     VOLUME   485513.500 3755062.922 529.22
```

```
   LOCATION L0007112     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0007113     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0007114     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0007115     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0007116     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0007117     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0007118     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0007119     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0007120     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0007121     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0007122     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0007123     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0007124     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0007125     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0007126     VOLUME   485510.871 3755191.745 532.51
** END OF LINE VOLUME SOURCE ID = SLINE5
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE8
** DESCRSRC 50% OUTBOUND DWY 1. TO SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 0.00002783
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 3
** 484777.829, 3755018.448, 533.85, 3.49, 4.00
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485510.733, 3755198.522, 532.87, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007127     VOLUME   484782.124 3755018.469 533.74
   LOCATION L0007128     VOLUME   484790.714 3755018.511 533.74
   LOCATION L0007129     VOLUME   484799.304 3755018.553 533.74
   LOCATION L0007130     VOLUME   484807.894 3755018.595 533.74
   LOCATION L0007131     VOLUME   484816.484 3755018.637 533.74
   LOCATION L0007132     VOLUME   484825.074 3755018.679 533.74
   LOCATION L0007133     VOLUME   484833.664 3755018.721 533.74
   LOCATION L0007134     VOLUME   484842.254 3755018.763 533.75
   LOCATION L0007135     VOLUME   484850.843 3755018.805 533.75
   LOCATION L0007136     VOLUME   484859.433 3755018.847 533.75
   LOCATION L0007137     VOLUME   484868.023 3755018.889 533.75
   LOCATION L0007138     VOLUME   484876.613 3755018.931 533.59
   LOCATION L0007139     VOLUME   484885.203 3755018.973 533.37
   LOCATION L0007140     VOLUME   484893.793 3755019.015 533.16
   LOCATION L0007141     VOLUME   484902.383 3755019.057 533.00
   LOCATION L0007142     VOLUME   484910.973 3755019.099 533.00
   LOCATION L0007143     VOLUME   484919.563 3755019.141 533.00
   LOCATION L0007144     VOLUME   484928.152 3755019.183 533.00
   LOCATION L0007145     VOLUME   484936.742 3755019.225 532.95
```

```
LOCATION L0007146     VOLUME   484945.332 3755019.267 532.88
LOCATION L0007147     VOLUME   484953.922 3755019.309 532.81
LOCATION L0007148     VOLUME   484962.512 3755019.351 532.77
LOCATION L0007149     VOLUME   484971.102 3755019.393 532.77
LOCATION L0007150     VOLUME   484979.692 3755019.435 532.77
LOCATION L0007151     VOLUME   484988.282 3755019.477 532.77
LOCATION L0007152     VOLUME   484996.872 3755019.519 532.77
LOCATION L0007153     VOLUME   485005.462 3755019.561 532.77
LOCATION L0007154     VOLUME   485014.051 3755019.603 532.77
LOCATION L0007155     VOLUME   485022.641 3755019.645 532.69
LOCATION L0007156     VOLUME   485031.231 3755019.687 532.41
LOCATION L0007157     VOLUME   485039.821 3755019.729 532.12
LOCATION L0007158     VOLUME   485048.411 3755019.771 531.84
LOCATION L0007159     VOLUME   485057.001 3755019.813 531.78
LOCATION L0007160     VOLUME   485065.591 3755019.855 531.78
LOCATION L0007161     VOLUME   485074.181 3755019.897 531.78
LOCATION L0007162     VOLUME   485082.771 3755019.939 531.79
LOCATION L0007163     VOLUME   485091.361 3755019.981 531.79
LOCATION L0007164     VOLUME   485099.950 3755020.023 531.79
LOCATION L0007165     VOLUME   485108.540 3755020.065 531.79
LOCATION L0007166     VOLUME   485117.130 3755020.107 531.61
LOCATION L0007167     VOLUME   485125.720 3755020.149 531.38
LOCATION L0007168     VOLUME   485134.310 3755020.191 531.15
LOCATION L0007169     VOLUME   485142.900 3755020.233 530.98
LOCATION L0007170     VOLUME   485151.490 3755020.275 530.92
LOCATION L0007171     VOLUME   485160.080 3755020.317 530.87
LOCATION L0007172     VOLUME   485168.670 3755020.359 530.81
LOCATION L0007173     VOLUME   485177.260 3755020.401 530.80
LOCATION L0007174     VOLUME   485185.849 3755020.443 530.80
LOCATION L0007175     VOLUME   485194.439 3755020.485 530.80
LOCATION L0007176     VOLUME   485203.029 3755020.527 530.81
LOCATION L0007177     VOLUME   485211.619 3755020.569 530.81
LOCATION L0007178     VOLUME   485220.209 3755020.611 530.81
LOCATION L0007179     VOLUME   485228.799 3755020.653 530.81
LOCATION L0007180     VOLUME   485237.389 3755020.695 530.61
LOCATION L0007181     VOLUME   485245.979 3755020.737 530.38
LOCATION L0007182     VOLUME   485254.569 3755020.779 530.15
LOCATION L0007183     VOLUME   485263.158 3755020.821 529.98
LOCATION L0007184     VOLUME   485271.748 3755020.863 529.93
LOCATION L0007185     VOLUME   485280.338 3755020.905 529.88
LOCATION L0007186     VOLUME   485288.928 3755020.947 529.83
LOCATION L0007187     VOLUME   485297.518 3755020.989 529.82
LOCATION L0007188     VOLUME   485306.108 3755021.031 529.82
LOCATION L0007189     VOLUME   485314.698 3755021.073 529.82
LOCATION L0007190     VOLUME   485323.288 3755021.115 529.82
LOCATION L0007191     VOLUME   485331.878 3755021.157 529.83
LOCATION L0007192     VOLUME   485340.468 3755021.199 529.83
LOCATION L0007193     VOLUME   485349.057 3755021.241 529.83
LOCATION L0007194     VOLUME   485357.647 3755021.283 529.62
LOCATION L0007195     VOLUME   485366.237 3755021.325 529.38
```

```
   LOCATION L0007196     VOLUME   485374.827 3755021.367 529.15
   LOCATION L0007197     VOLUME   485383.417 3755021.409 528.98
   LOCATION L0007198     VOLUME   485392.007 3755021.451 528.93
   LOCATION L0007199     VOLUME   485400.597 3755021.493 528.89
   LOCATION L0007200     VOLUME   485409.187 3755021.535 528.84
   LOCATION L0007201     VOLUME   485417.777 3755021.577 528.84
   LOCATION L0007202     VOLUME   485426.367 3755021.619 528.84
   LOCATION L0007203     VOLUME   485434.956 3755021.661 528.84
   LOCATION L0007204     VOLUME   485443.546 3755021.703 528.84
   LOCATION L0007205     VOLUME   485452.136 3755021.745 528.85
   LOCATION L0007206     VOLUME   485460.726 3755021.787 528.85
   LOCATION L0007207     VOLUME   485469.316 3755021.829 528.85
   LOCATION L0007208     VOLUME   485477.906 3755021.871 528.85
   LOCATION L0007209     VOLUME   485486.496 3755021.913 528.85
   LOCATION L0007210     VOLUME   485495.086 3755021.955 528.85
   LOCATION L0007211     VOLUME   485503.676 3755021.997 528.85
   LOCATION L0007212     VOLUME   485512.266 3755022.039 528.86
   LOCATION L0007213     VOLUME   485514.201 3755028.569 529.00
   LOCATION L0007214     VOLUME   485514.026 3755037.157 529.00
   LOCATION L0007215     VOLUME   485513.851 3755045.745 529.00
   LOCATION L0007216     VOLUME   485513.675 3755054.334 529.00
   LOCATION L0007217     VOLUME   485513.500 3755062.922 529.22
   LOCATION L0007218     VOLUME   485513.325 3755071.510 529.50
   LOCATION L0007219     VOLUME   485513.150 3755080.098 529.79
   LOCATION L0007220     VOLUME   485512.974 3755088.686 530.08
   LOCATION L0007221     VOLUME   485512.799 3755097.275 530.36
   LOCATION L0007222     VOLUME   485512.624 3755105.863 530.65
   LOCATION L0007223     VOLUME   485512.449 3755114.451 530.94
   LOCATION L0007224     VOLUME   485512.273 3755123.039 531.09
   LOCATION L0007225     VOLUME   485512.098 3755131.627 531.20
   LOCATION L0007226     VOLUME   485511.923 3755140.216 531.31
   LOCATION L0007227     VOLUME   485511.747 3755148.804 531.44
   LOCATION L0007228     VOLUME   485511.572 3755157.392 531.61
   LOCATION L0007229     VOLUME   485511.397 3755165.980 531.78
   LOCATION L0007230     VOLUME   485511.222 3755174.569 531.96
   LOCATION L0007231     VOLUME   485511.046 3755183.157 532.23
   LOCATION L0007232     VOLUME   485510.871 3755191.745 532.51
** END OF LINE VOLUME SOURCE ID = SLINE8
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE9
** DESCRSRC 10% OUTBOUND DWY 5. TO SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 4.634E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 4
** 485402.321, 3755019.754, 528.85, 3.49, 4.00
```

```
** 485514.334, 3755022.049, 528.87, 3.49, 4.00
** 485512.931, 3755294.370, 536.00, 3.49, 4.00
** 485517.265, 3755675.383, 544.00, 3.49, 4.00
** ------------------------------------------------------------------
   LOCATION L0007667     VOLUME   485406.615 3755019.842 528.81
   LOCATION L0007668     VOLUME   485415.203 3755020.018 528.79
   LOCATION L0007669     VOLUME   485423.792 3755020.194 528.79
   LOCATION L0007670     VOLUME   485432.380 3755020.370 528.80
   LOCATION L0007671     VOLUME   485440.968 3755020.546 528.81
   LOCATION L0007672     VOLUME   485449.556 3755020.722 528.81
   LOCATION L0007673     VOLUME   485458.144 3755020.898 528.82
   LOCATION L0007674     VOLUME   485466.733 3755021.074 528.82
   LOCATION L0007675     VOLUME   485475.321 3755021.250 528.83
   LOCATION L0007676     VOLUME   485483.909 3755021.426 528.84
   LOCATION L0007677     VOLUME   485492.497 3755021.602 528.84
   LOCATION L0007678     VOLUME   485501.085 3755021.778 528.85
   LOCATION L0007679     VOLUME   485509.674 3755021.954 528.85
   LOCATION L0007680     VOLUME   485514.314 3755025.977 528.99
   LOCATION L0007681     VOLUME   485514.270 3755034.567 529.00
   LOCATION L0007682     VOLUME   485514.226 3755043.157 529.00
   LOCATION L0007683     VOLUME   485514.181 3755051.747 529.00
   LOCATION L0007684     VOLUME   485514.137 3755060.337 529.13
   LOCATION L0007685     VOLUME   485514.093 3755068.927 529.42
   LOCATION L0007686     VOLUME   485514.049 3755077.517 529.71
   LOCATION L0007687     VOLUME   485514.004 3755086.107 529.99
   LOCATION L0007688     VOLUME   485513.960 3755094.696 530.28
   LOCATION L0007689     VOLUME   485513.916 3755103.286 530.56
   LOCATION L0007690     VOLUME   485513.872 3755111.876 530.85
   LOCATION L0007691     VOLUME   485513.827 3755120.466 531.06
   LOCATION L0007692     VOLUME   485513.783 3755129.056 531.19
   LOCATION L0007693     VOLUME   485513.739 3755137.646 531.32
   LOCATION L0007694     VOLUME   485513.694 3755146.236 531.45
   LOCATION L0007695     VOLUME   485513.650 3755154.826 531.61
   LOCATION L0007696     VOLUME   485513.606 3755163.416 531.76
   LOCATION L0007697     VOLUME   485513.562 3755172.005 531.92
   LOCATION L0007698     VOLUME   485513.517 3755180.595 532.14
   LOCATION L0007699     VOLUME   485513.473 3755189.185 532.43
   LOCATION L0007700     VOLUME   485513.429 3755197.775 532.71
   LOCATION L0007701     VOLUME   485513.385 3755206.365 533.00
   LOCATION L0007702     VOLUME   485513.340 3755214.955 533.57
   LOCATION L0007703     VOLUME   485513.296 3755223.545 534.15
   LOCATION L0007704     VOLUME   485513.252 3755232.135 534.72
   LOCATION L0007705     VOLUME   485513.208 3755240.724 535.15
   LOCATION L0007706     VOLUME   485513.163 3755249.314 535.43
   LOCATION L0007707     VOLUME   485513.119 3755257.904 535.72
   LOCATION L0007708     VOLUME   485513.075 3755266.494 536.00
   LOCATION L0007709     VOLUME   485513.031 3755275.084 536.00
   LOCATION L0007710     VOLUME   485512.986 3755283.674 536.00
   LOCATION L0007711     VOLUME   485512.942 3755292.264 536.00
   LOCATION L0007712     VOLUME   485513.005 3755300.853 536.00
```

```
   LOCATION L0007713     VOLUME   485513.103 3755309.443 536.00
   LOCATION L0007714     VOLUME   485513.200 3755318.032 536.00
   LOCATION L0007715     VOLUME   485513.298 3755326.622 536.00
   LOCATION L0007716     VOLUME   485513.396 3755335.211 536.13
   LOCATION L0007717     VOLUME   485513.494 3755343.801 536.26
   LOCATION L0007718     VOLUME   485513.591 3755352.390 536.39
   LOCATION L0007719     VOLUME   485513.689 3755360.979 536.54
   LOCATION L0007720     VOLUME   485513.787 3755369.569 536.70
   LOCATION L0007721     VOLUME   485513.884 3755378.158 536.85
   LOCATION L0007722     VOLUME   485513.982 3755386.748 537.01
   LOCATION L0007723     VOLUME   485514.080 3755395.337 537.30
   LOCATION L0007724     VOLUME   485514.177 3755403.927 537.59
   LOCATION L0007725     VOLUME   485514.275 3755412.516 537.87
   LOCATION L0007726     VOLUME   485514.373 3755421.106 538.08
   LOCATION L0007727     VOLUME   485514.471 3755429.695 538.23
   LOCATION L0007728     VOLUME   485514.568 3755438.284 538.38
   LOCATION L0007729     VOLUME   485514.666 3755446.874 538.52
   LOCATION L0007730     VOLUME   485514.764 3755455.463 538.66
   LOCATION L0007731     VOLUME   485514.861 3755464.053 538.80
   LOCATION L0007732     VOLUME   485514.959 3755472.642 538.94
   LOCATION L0007733     VOLUME   485515.057 3755481.232 539.16
   LOCATION L0007734     VOLUME   485515.154 3755489.821 539.45
   LOCATION L0007735     VOLUME   485515.252 3755498.411 539.74
   LOCATION L0007736     VOLUME   485515.350 3755507.000 540.02
   LOCATION L0007737     VOLUME   485515.448 3755515.589 540.31
   LOCATION L0007738     VOLUME   485515.545 3755524.179 540.59
   LOCATION L0007739     VOLUME   485515.643 3755532.768 540.88
   LOCATION L0007740     VOLUME   485515.741 3755541.358 541.00
   LOCATION L0007741     VOLUME   485515.838 3755549.947 541.00
   LOCATION L0007742     VOLUME   485515.936 3755558.537 541.00
   LOCATION L0007743     VOLUME   485516.034 3755567.126 541.03
   LOCATION L0007744     VOLUME   485516.131 3755575.716 541.31
   LOCATION L0007745     VOLUME   485516.229 3755584.305 541.60
   LOCATION L0007746     VOLUME   485516.327 3755592.894 541.88
   LOCATION L0007747     VOLUME   485516.425 3755601.484 542.17
   LOCATION L0007748     VOLUME   485516.522 3755610.073 542.46
   LOCATION L0007749     VOLUME   485516.620 3755618.663 542.74
   LOCATION L0007750     VOLUME   485516.718 3755627.252 543.03
   LOCATION L0007751     VOLUME   485516.815 3755635.842 543.32
   LOCATION L0007752     VOLUME   485516.913 3755644.431 543.60
   LOCATION L0007753     VOLUME   485517.011 3755653.021 543.89
   LOCATION L0007754     VOLUME   485517.108 3755661.610 544.00
   LOCATION L0007755     VOLUME   485517.206 3755670.199 544.00
** END OF LINE VOLUME SOURCE ID = SLINE9
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE6
** DESCRSRC 30% INBOUND DWY. 7 FROM SR-60/REDLANDS
** PREFIX
** LENGTH OF SIDE = 8.59
```

```
** CONFIGURATION = ADJACENT
** EMISSION RATE = 8.729E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 485512.451, 3754714.703, 521.72, 3.49, 4.00
** 485512.451, 3755192.518, 532.71, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007322     VOLUME   485512.451 3754718.998 521.75
   LOCATION L0007323     VOLUME   485512.451 3754727.588 522.02
   LOCATION L0007324     VOLUME   485512.451 3754736.178 522.19
   LOCATION L0007325     VOLUME   485512.451 3754744.768 522.36
   LOCATION L0007326     VOLUME   485512.451 3754753.358 522.53
   LOCATION L0007327     VOLUME   485512.451 3754761.948 522.67
   LOCATION L0007328     VOLUME   485512.451 3754770.538 522.78
   LOCATION L0007329     VOLUME   485512.451 3754779.128 522.90
   LOCATION L0007330     VOLUME   485512.451 3754787.718 523.05
   LOCATION L0007331     VOLUME   485512.451 3754796.308 523.33
   LOCATION L0007332     VOLUME   485512.451 3754804.898 523.62
   LOCATION L0007333     VOLUME   485512.451 3754813.488 523.90
   LOCATION L0007334     VOLUME   485512.451 3754822.078 524.19
   LOCATION L0007335     VOLUME   485512.451 3754830.668 524.48
   LOCATION L0007336     VOLUME   485512.451 3754839.258 524.76
   LOCATION L0007337     VOLUME   485512.451 3754847.848 525.00
   LOCATION L0007338     VOLUME   485512.451 3754856.438 525.00
   LOCATION L0007339     VOLUME   485512.451 3754865.028 525.00
   LOCATION L0007340     VOLUME   485512.451 3754873.618 525.00
   LOCATION L0007341     VOLUME   485512.451 3754882.208 525.19
   LOCATION L0007342     VOLUME   485512.451 3754890.798 525.48
   LOCATION L0007343     VOLUME   485512.451 3754899.388 525.77
   LOCATION L0007344     VOLUME   485512.451 3754907.978 526.05
   LOCATION L0007345     VOLUME   485512.451 3754916.568 526.34
   LOCATION L0007346     VOLUME   485512.451 3754925.158 526.63
   LOCATION L0007347     VOLUME   485512.451 3754933.748 526.91
   LOCATION L0007348     VOLUME   485512.451 3754942.338 527.00
   LOCATION L0007349     VOLUME   485512.451 3754950.928 527.00
   LOCATION L0007350     VOLUME   485512.451 3754959.518 527.00
   LOCATION L0007351     VOLUME   485512.451 3754968.108 527.06
   LOCATION L0007352     VOLUME   485512.451 3754976.698 527.34
   LOCATION L0007353     VOLUME   485512.451 3754985.288 527.63
   LOCATION L0007354     VOLUME   485512.451 3754993.878 527.92
   LOCATION L0007355     VOLUME   485512.451 3755002.468 528.20
   LOCATION L0007356     VOLUME   485512.451 3755011.058 528.49
   LOCATION L0007357     VOLUME   485512.451 3755019.648 528.78
   LOCATION L0007358     VOLUME   485512.451 3755028.238 529.00
   LOCATION L0007359     VOLUME   485512.451 3755036.828 529.00
   LOCATION L0007360     VOLUME   485512.451 3755045.418 529.00
   LOCATION L0007361     VOLUME   485512.451 3755054.008 529.00
   LOCATION L0007362     VOLUME   485512.451 3755062.598 529.21
   LOCATION L0007363     VOLUME   485512.451 3755071.188 529.49
```

```
   LOCATION L0007364     VOLUME   485512.451 3755079.778 529.78
   LOCATION L0007365     VOLUME   485512.451 3755088.368 530.07
   LOCATION L0007366     VOLUME   485512.451 3755096.958 530.35
   LOCATION L0007367     VOLUME   485512.451 3755105.548 530.64
   LOCATION L0007368     VOLUME   485512.451 3755114.138 530.93
   LOCATION L0007369     VOLUME   485512.451 3755122.728 531.09
   LOCATION L0007370     VOLUME   485512.451 3755131.318 531.21
   LOCATION L0007371     VOLUME   485512.451 3755139.908 531.32
   LOCATION L0007372     VOLUME   485512.451 3755148.498 531.45
   LOCATION L0007373     VOLUME   485512.451 3755157.088 531.62
   LOCATION L0007374     VOLUME   485512.451 3755165.678 531.79
   LOCATION L0007375     VOLUME   485512.451 3755174.268 531.96
   LOCATION L0007376     VOLUME   485512.451 3755182.858 532.22
   LOCATION L0007377     VOLUME   485512.451 3755191.448 532.50
** END OF LINE VOLUME SOURCE ID = SLINE6
** ----------------------------------------------------------------------
** LINE SOURCE REPRESENTED BY ADJACENT VOLUME SOURCES
** LINE VOLUME SOURCE ID = SLINE7
** DESCRSRC 10% INBOUND SR-60
** PREFIX
** LENGTH OF SIDE = 8.59
** CONFIGURATION = ADJACENT
** EMISSION RATE = 2.845E-06
** VERTICAL DIMENSION = 6.99
** SZINIT = 3.25
** NODES = 2
** 485510.853, 3755203.704, 532.94, 3.49, 4.00
** 485516.446, 3755673.528, 544.00, 3.49, 4.00
** ----------------------------------------------------------------------
   LOCATION L0007378     VOLUME   485510.904 3755207.999 533.11
   LOCATION L0007379     VOLUME   485511.006 3755216.588 533.68
   LOCATION L0007380     VOLUME   485511.108 3755225.177 534.25
   LOCATION L0007381     VOLUME   485511.210 3755233.767 534.83
   LOCATION L0007382     VOLUME   485511.313 3755242.356 535.20
   LOCATION L0007383     VOLUME   485511.415 3755250.946 535.49
   LOCATION L0007384     VOLUME   485511.517 3755259.535 535.77
   LOCATION L0007385     VOLUME   485511.619 3755268.124 536.00
   LOCATION L0007386     VOLUME   485511.722 3755276.714 536.00
   LOCATION L0007387     VOLUME   485511.824 3755285.303 536.00
   LOCATION L0007388     VOLUME   485511.926 3755293.893 536.00
   LOCATION L0007389     VOLUME   485512.029 3755302.482 536.00
   LOCATION L0007390     VOLUME   485512.131 3755311.071 536.00
   LOCATION L0007391     VOLUME   485512.233 3755319.661 536.00
   LOCATION L0007392     VOLUME   485512.335 3755328.250 536.03
   LOCATION L0007393     VOLUME   485512.438 3755336.839 536.14
   LOCATION L0007394     VOLUME   485512.540 3755345.429 536.26
   LOCATION L0007395     VOLUME   485512.642 3755354.018 536.39
   LOCATION L0007396     VOLUME   485512.744 3755362.608 536.54
   LOCATION L0007397     VOLUME   485512.847 3755371.197 536.71
   LOCATION L0007398     VOLUME   485512.949 3755379.786 536.87
```

```
   LOCATION L0007399     VOLUME   485513.051 3755388.376 537.07
   LOCATION L0007400     VOLUME   485513.153 3755396.965 537.35
   LOCATION L0007401     VOLUME   485513.256 3755405.555 537.64
   LOCATION L0007402     VOLUME   485513.358 3755414.144 537.93
   LOCATION L0007403     VOLUME   485513.460 3755422.733 538.12
   LOCATION L0007404     VOLUME   485513.562 3755431.323 538.27
   LOCATION L0007405     VOLUME   485513.665 3755439.912 538.43
   LOCATION L0007406     VOLUME   485513.767 3755448.502 538.58
   LOCATION L0007407     VOLUME   485513.869 3755457.091 538.71
   LOCATION L0007408     VOLUME   485513.971 3755465.680 538.84
   LOCATION L0007409     VOLUME   485514.074 3755474.270 538.97
   LOCATION L0007410     VOLUME   485514.176 3755482.859 539.22
   LOCATION L0007411     VOLUME   485514.278 3755491.449 539.50
   LOCATION L0007412     VOLUME   485514.380 3755500.038 539.79
   LOCATION L0007413     VOLUME   485514.483 3755508.627 540.08
   LOCATION L0007414     VOLUME   485514.585 3755517.217 540.36
   LOCATION L0007415     VOLUME   485514.687 3755525.806 540.65
   LOCATION L0007416     VOLUME   485514.789 3755534.395 540.93
   LOCATION L0007417     VOLUME   485514.892 3755542.985 541.00
   LOCATION L0007418     VOLUME   485514.994 3755551.574 541.00
   LOCATION L0007419     VOLUME   485515.096 3755560.164 541.00
   LOCATION L0007420     VOLUME   485515.198 3755568.753 541.08
   LOCATION L0007421     VOLUME   485515.301 3755577.342 541.37
   LOCATION L0007422     VOLUME   485515.403 3755585.932 541.65
   LOCATION L0007423     VOLUME   485515.505 3755594.521 541.94
   LOCATION L0007424     VOLUME   485515.607 3755603.111 542.23
   LOCATION L0007425     VOLUME   485515.710 3755611.700 542.51
   LOCATION L0007426     VOLUME   485515.812 3755620.289 542.80
   LOCATION L0007427     VOLUME   485515.914 3755628.879 543.08
   LOCATION L0007428     VOLUME   485516.016 3755637.468 543.37
   LOCATION L0007429     VOLUME   485516.119 3755646.058 543.66
   LOCATION L0007430     VOLUME   485516.221 3755654.647 543.94
   LOCATION L0007431     VOLUME   485516.323 3755663.236 544.00
   LOCATION L0007432     VOLUME   485516.425 3755671.826 544.00
** END OF LINE VOLUME SOURCE ID = SLINE7
** SOURCE PARAMETERS **
** LINE VOLUME SOURCE ID = SLINE1
   SRCPARAM L0006618     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006619     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006620     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006621     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006622     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006623     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006624     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006625     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006626     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006627     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006628     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006629     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006630     0.000001423      3.49      4.00      3.25
```

```
   SRCPARAM L0006631     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006632     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006633     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006634     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006635     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006636     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006637     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006638     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006639     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006640     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006641     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006642     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006643     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006644     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006645     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006646     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006647     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006648     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006649     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006650     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006651     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006652     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006653     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006654     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006655     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006656     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006657     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006658     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006659     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006660     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006661     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006662     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006663     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006664     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006665     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006666     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006667     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006668     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006669     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006670     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006671     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006672     0.000001423      3.49      4.00      3.25
   SRCPARAM L0006673     0.000001423      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE3
   SRCPARAM L0007433     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007434     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007435     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007436     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007437     0.000002364      3.49      4.00      3.25
```

```
SRCPARAM L0007438     0.000002364      3.49      4.00      3.25
SRCPARAM L0007439     0.000002364      3.49      4.00      3.25
SRCPARAM L0007440     0.000002364      3.49      4.00      3.25
SRCPARAM L0007441     0.000002364      3.49      4.00      3.25
SRCPARAM L0007442     0.000002364      3.49      4.00      3.25
SRCPARAM L0007443     0.000002364      3.49      4.00      3.25
SRCPARAM L0007444     0.000002364      3.49      4.00      3.25
SRCPARAM L0007445     0.000002364      3.49      4.00      3.25
SRCPARAM L0007446     0.000002364      3.49      4.00      3.25
SRCPARAM L0007447     0.000002364      3.49      4.00      3.25
SRCPARAM L0007448     0.000002364      3.49      4.00      3.25
SRCPARAM L0007449     0.000002364      3.49      4.00      3.25
SRCPARAM L0007450     0.000002364      3.49      4.00      3.25
SRCPARAM L0007451     0.000002364      3.49      4.00      3.25
SRCPARAM L0007452     0.000002364      3.49      4.00      3.25
SRCPARAM L0007453     0.000002364      3.49      4.00      3.25
SRCPARAM L0007454     0.000002364      3.49      4.00      3.25
SRCPARAM L0007455     0.000002364      3.49      4.00      3.25
SRCPARAM L0007456     0.000002364      3.49      4.00      3.25
SRCPARAM L0007457     0.000002364      3.49      4.00      3.25
SRCPARAM L0007458     0.000002364      3.49      4.00      3.25
SRCPARAM L0007459     0.000002364      3.49      4.00      3.25
SRCPARAM L0007460     0.000002364      3.49      4.00      3.25
SRCPARAM L0007461     0.000002364      3.49      4.00      3.25
SRCPARAM L0007462     0.000002364      3.49      4.00      3.25
SRCPARAM L0007463     0.000002364      3.49      4.00      3.25
SRCPARAM L0007464     0.000002364      3.49      4.00      3.25
SRCPARAM L0007465     0.000002364      3.49      4.00      3.25
SRCPARAM L0007466     0.000002364      3.49      4.00      3.25
SRCPARAM L0007467     0.000002364      3.49      4.00      3.25
SRCPARAM L0007468     0.000002364      3.49      4.00      3.25
SRCPARAM L0007469     0.000002364      3.49      4.00      3.25
SRCPARAM L0007470     0.000002364      3.49      4.00      3.25
SRCPARAM L0007471     0.000002364      3.49      4.00      3.25
SRCPARAM L0007472     0.000002364      3.49      4.00      3.25
SRCPARAM L0007473     0.000002364      3.49      4.00      3.25
SRCPARAM L0007474     0.000002364      3.49      4.00      3.25
SRCPARAM L0007475     0.000002364      3.49      4.00      3.25
SRCPARAM L0007476     0.000002364      3.49      4.00      3.25
SRCPARAM L0007477     0.000002364      3.49      4.00      3.25
SRCPARAM L0007478     0.000002364      3.49      4.00      3.25
SRCPARAM L0007479     0.000002364      3.49      4.00      3.25
SRCPARAM L0007480     0.000002364      3.49      4.00      3.25
SRCPARAM L0007481     0.000002364      3.49      4.00      3.25
SRCPARAM L0007482     0.000002364      3.49      4.00      3.25
SRCPARAM L0007483     0.000002364      3.49      4.00      3.25
SRCPARAM L0007484     0.000002364      3.49      4.00      3.25
SRCPARAM L0007485     0.000002364      3.49      4.00      3.25
SRCPARAM L0007486     0.000002364      3.49      4.00      3.25
SRCPARAM L0007487     0.000002364      3.49      4.00      3.25
```

```
SRCPARAM L0007488     0.000002364      3.49      4.00      3.25
SRCPARAM L0007489     0.000002364      3.49      4.00      3.25
SRCPARAM L0007490     0.000002364      3.49      4.00      3.25
SRCPARAM L0007491     0.000002364      3.49      4.00      3.25
SRCPARAM L0007492     0.000002364      3.49      4.00      3.25
SRCPARAM L0007493     0.000002364      3.49      4.00      3.25
SRCPARAM L0007494     0.000002364      3.49      4.00      3.25
SRCPARAM L0007495     0.000002364      3.49      4.00      3.25
SRCPARAM L0007496     0.000002364      3.49      4.00      3.25
SRCPARAM L0007497     0.000002364      3.49      4.00      3.25
SRCPARAM L0007498     0.000002364      3.49      4.00      3.25
SRCPARAM L0007499     0.000002364      3.49      4.00      3.25
SRCPARAM L0007500     0.000002364      3.49      4.00      3.25
SRCPARAM L0007501     0.000002364      3.49      4.00      3.25
SRCPARAM L0007502     0.000002364      3.49      4.00      3.25
SRCPARAM L0007503     0.000002364      3.49      4.00      3.25
SRCPARAM L0007504     0.000002364      3.49      4.00      3.25
SRCPARAM L0007505     0.000002364      3.49      4.00      3.25
SRCPARAM L0007506     0.000002364      3.49      4.00      3.25
SRCPARAM L0007507     0.000002364      3.49      4.00      3.25
SRCPARAM L0007508     0.000002364      3.49      4.00      3.25
SRCPARAM L0007509     0.000002364      3.49      4.00      3.25
SRCPARAM L0007510     0.000002364      3.49      4.00      3.25
SRCPARAM L0007511     0.000002364      3.49      4.00      3.25
SRCPARAM L0007512     0.000002364      3.49      4.00      3.25
SRCPARAM L0007513     0.000002364      3.49      4.00      3.25
SRCPARAM L0007514     0.000002364      3.49      4.00      3.25
SRCPARAM L0007515     0.000002364      3.49      4.00      3.25
SRCPARAM L0007516     0.000002364      3.49      4.00      3.25
SRCPARAM L0007517     0.000002364      3.49      4.00      3.25
SRCPARAM L0007518     0.000002364      3.49      4.00      3.25
SRCPARAM L0007519     0.000002364      3.49      4.00      3.25
SRCPARAM L0007520     0.000002364      3.49      4.00      3.25
SRCPARAM L0007521     0.000002364      3.49      4.00      3.25
SRCPARAM L0007522     0.000002364      3.49      4.00      3.25
SRCPARAM L0007523     0.000002364      3.49      4.00      3.25
SRCPARAM L0007524     0.000002364      3.49      4.00      3.25
SRCPARAM L0007525     0.000002364      3.49      4.00      3.25
SRCPARAM L0007526     0.000002364      3.49      4.00      3.25
SRCPARAM L0007527     0.000002364      3.49      4.00      3.25
SRCPARAM L0007528     0.000002364      3.49      4.00      3.25
SRCPARAM L0007529     0.000002364      3.49      4.00      3.25
SRCPARAM L0007530     0.000002364      3.49      4.00      3.25
SRCPARAM L0007531     0.000002364      3.49      4.00      3.25
SRCPARAM L0007532     0.000002364      3.49      4.00      3.25
SRCPARAM L0007533     0.000002364      3.49      4.00      3.25
SRCPARAM L0007534     0.000002364      3.49      4.00      3.25
SRCPARAM L0007535     0.000002364      3.49      4.00      3.25
SRCPARAM L0007536     0.000002364      3.49      4.00      3.25
SRCPARAM L0007537     0.000002364      3.49      4.00      3.25
```

```
   SRCPARAM L0007538     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007539     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007540     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007541     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007542     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007543     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007544     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007545     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007546     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007547     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007548     0.000002364      3.49      4.00      3.25
   SRCPARAM L0007549     0.000002364      3.49      4.00      3.25
** ----------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE4
   SRCPARAM L0006847     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006848     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006849     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006850     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006851     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006852     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006853     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006854     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006855     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006856     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006857     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006858     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006859     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006860     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006861     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006862     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006863     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006864     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006865     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006866     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006867     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006868     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006869     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006870     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006871     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006872     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006873     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006874     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006875     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006876     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006877     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006878     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006879     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006880     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006881     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006882     0.0000004191      3.49      4.00      3.25
```

```
SRCPARAM L0006883     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006884     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006885     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006886     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006887     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006888     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006889     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006890     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006891     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006892     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006893     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006894     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006895     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006896     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006897     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006898     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006899     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006900     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006901     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006902     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006903     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006904     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006905     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006906     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006907     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006908     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006909     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006910     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006911     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006912     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006913     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006914     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006915     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006916     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006917     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006918     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006919     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006920     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006921     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006922     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006923     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006924     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006925     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006926     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006927     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006928     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006929     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006930     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006931     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006932     0.0000004191      3.49      4.00      3.25
```

```
SRCPARAM L0006933     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006934     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006935     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006936     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006937     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006938     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006939     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006940     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006941     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006942     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006943     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006944     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006945     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006946     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006947     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006948     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006949     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006950     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006951     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006952     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006953     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006954     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006955     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006956     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006957     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006958     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006959     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006960     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006961     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006962     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006963     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006964     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006965     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006966     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006967     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006968     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006969     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006970     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006971     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006972     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006973     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006974     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006975     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006976     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006977     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006978     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006979     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006980     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006981     0.0000004191      3.49      4.00      3.25
SRCPARAM L0006982     0.0000004191      3.49      4.00      3.25
```

```
   SRCPARAM L0006983     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006984     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006985     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006986     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006987     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006988     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006989     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006990     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006991     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006992     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006993     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006994     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006995     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006996     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006997     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006998     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0006999     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007000     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007001     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007002     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007003     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007004     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007005     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007006     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007007     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007008     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007009     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007010     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007011     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007012     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007013     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007014     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007015     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007016     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007017     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007018     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007019     0.0000004191      3.49      4.00      3.25
   SRCPARAM L0007020     0.0000004191      3.49      4.00      3.25
** ----------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE5
   SRCPARAM L0007021     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007022     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007023     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007024     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007025     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007026     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007027     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007028     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007029     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007030     0.0000001574      3.49      4.00      3.25
```

```
SRCPARAM L0007031     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007032     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007033     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007034     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007035     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007036     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007037     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007038     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007039     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007040     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007041     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007042     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007043     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007044     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007045     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007046     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007047     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007048     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007049     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007050     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007051     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007052     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007053     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007054     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007055     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007056     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007057     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007058     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007059     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007060     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007061     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007062     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007063     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007064     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007065     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007066     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007067     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007068     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007069     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007070     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007071     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007072     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007073     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007074     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007075     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007076     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007077     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007078     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007079     0.0000001574      3.49      4.00      3.25
SRCPARAM L0007080     0.0000001574      3.49      4.00      3.25
```

```
   SRCPARAM L0007081     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007082     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007083     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007084     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007085     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007086     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007087     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007088     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007089     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007090     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007091     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007092     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007093     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007094     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007095     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007096     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007097     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007098     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007099     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007100     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007101     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007102     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007103     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007104     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007105     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007106     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007107     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007108     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007109     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007110     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007111     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007112     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007113     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007114     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007115     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007116     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007117     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007118     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007119     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007120     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007121     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007122     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007123     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007124     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007125     0.0000001574      3.49      4.00      3.25
   SRCPARAM L0007126     0.0000001574      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE8
   SRCPARAM L0007127     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007128     0.0000002625      3.49      4.00      3.25
```

```
SRCPARAM L0007129     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007130     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007131     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007132     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007133     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007134     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007135     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007136     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007137     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007138     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007139     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007140     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007141     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007142     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007143     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007144     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007145     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007146     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007147     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007148     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007149     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007150     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007151     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007152     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007153     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007154     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007155     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007156     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007157     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007158     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007159     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007160     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007161     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007162     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007163     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007164     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007165     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007166     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007167     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007168     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007169     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007170     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007171     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007172     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007173     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007174     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007175     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007176     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007177     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007178     0.0000002625      3.49      4.00      3.25
```

```
SRCPARAM L0007179     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007180     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007181     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007182     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007183     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007184     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007185     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007186     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007187     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007188     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007189     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007190     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007191     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007192     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007193     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007194     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007195     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007196     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007197     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007198     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007199     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007200     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007201     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007202     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007203     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007204     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007205     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007206     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007207     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007208     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007209     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007210     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007211     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007212     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007213     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007214     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007215     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007216     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007217     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007218     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007219     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007220     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007221     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007222     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007223     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007224     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007225     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007226     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007227     0.0000002625      3.49      4.00      3.25
SRCPARAM L0007228     0.0000002625      3.49      4.00      3.25
```

```
   SRCPARAM L0007229     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007230     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007231     0.0000002625      3.49      4.00      3.25
   SRCPARAM L0007232     0.0000002625      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE9
   SRCPARAM L0007667     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007668     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007669     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007670     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007671     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007672     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007673     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007674     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007675     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007676     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007677     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007678     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007679     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007680     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007681     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007682     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007683     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007684     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007685     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007686     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007687     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007688     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007689     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007690     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007691     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007692     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007693     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007694     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007695     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007696     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007697     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007698     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007699     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007700     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007701     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007702     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007703     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007704     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007705     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007706     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007707     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007708     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007709     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007710     0.00000005207      3.49      4.00      3.25
```

```
   SRCPARAM L0007711     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007712     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007713     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007714     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007715     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007716     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007717     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007718     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007719     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007720     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007721     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007722     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007723     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007724     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007725     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007726     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007727     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007728     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007729     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007730     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007731     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007732     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007733     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007734     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007735     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007736     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007737     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007738     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007739     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007740     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007741     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007742     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007743     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007744     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007745     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007746     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007747     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007748     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007749     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007750     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007751     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007752     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007753     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007754     0.00000005207      3.49      4.00      3.25
   SRCPARAM L0007755     0.00000005207      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE6
   SRCPARAM L0007322     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007323     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007324     0.0000001559      3.49      4.00      3.25
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
SRCPARAM L0007325     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007326     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007327     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007328     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007329     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007330     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007331     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007332     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007333     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007334     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007335     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007336     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007337     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007338     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007339     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007340     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007341     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007342     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007343     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007344     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007345     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007346     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007347     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007348     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007349     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007350     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007351     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007352     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007353     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007354     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007355     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007356     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007357     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007358     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007359     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007360     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007361     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007362     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007363     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007364     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007365     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007366     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007367     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007368     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007369     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007370     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007371     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007372     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007373     0.0000001559      3.49      4.00      3.25
SRCPARAM L0007374     0.0000001559      3.49      4.00      3.25
```

```
   SRCPARAM L0007375     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007376     0.0000001559      3.49      4.00      3.25
   SRCPARAM L0007377     0.0000001559      3.49      4.00      3.25
** ------------------------------------------------------------------
** LINE VOLUME SOURCE ID = SLINE7
   SRCPARAM L0007378     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007379     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007380     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007381     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007382     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007383     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007384     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007385     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007386     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007387     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007388     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007389     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007390     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007391     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007392     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007393     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007394     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007395     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007396     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007397     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007398     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007399     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007400     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007401     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007402     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007403     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007404     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007405     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007406     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007407     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007408     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007409     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007410     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007411     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007412     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007413     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007414     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007415     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007416     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007417     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007418     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007419     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007420     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007421     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007422     0.00000005173      3.49      4.00      3.25
```

```
   SRCPARAM L0007423     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007424     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007425     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007426     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007427     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007428     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007429     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007430     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007431     0.00000005173      3.49      4.00      3.25
   SRCPARAM L0007432     0.00000005173      3.49      4.00      3.25
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP ALL
SO FINISHED
**
**********************************
** AERMOD RECEPTOR PATHWAY
**********************************
**
**
RE STARTING
   INCLUDED "12974 FC.ROU"
RE FINISHED
**
**********************************
** AERMOD METEOROLOGY PATHWAY
**********************************
**
**
ME STARTING
   SURFFILE PERRISADJU\PERI_V9_ADJU\PERI_V9.SFC
   PROFFILE PERRISADJU\PERI_V9_ADJU\PERI_V9.PFL
   SURFDATA 3171 2010
   UAIRDATA 3190 2010
   SITEDATA 99999 2010
   PROFBASE 442.0 METERS
ME FINISHED
**
**********************************
** AERMOD OUTPUT PATHWAY
**********************************
**
**
OU STARTING
** AUTO-GENERATED PLOTFILES
   PLOTFILE   ANNUAL ALL "12974 FC.AD\AN00GALL.PLT" 31
   SUMMFILE "12974 FC.SUM"
OU FINISHED
```

```
 *** Message Summary For AERMOD Model Setup ***

 --------- Summary of Total Messages --------

A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of            0 Informational Message(s)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1736       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
ME W187    1736       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


**********************************
*** SETUP Finishes Successfully ***
**********************************

*** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
*** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE   1
*** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   759 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2189641.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  OTHER

 **Model Calculates ANNUAL Averages Only

 **This Run Includes:    759 Source(s);       1 Source Group(s); and      19
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    759 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of ANNUAL Averages by Receptor
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing
Hours
                                                                 b for Both Calm
and Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   442.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.8 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: 12974 FC.ERR

**File for Summary of Results: 12974 FC.SUM

*** AERMOD - VERSION 21112 *** *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
*** 04/05/22
*** AERMET - VERSION 16216 *** ***
*** 17:23:11

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0006618	0	0.14230E-05	484874.7	3754955.2	531.6	3.49	4.00	3.25	YES	
L0006619	0	0.14230E-05	484883.3	3754955.3	531.6	3.49	4.00	3.25	YES	
L0006620	0	0.14230E-05	484891.9	3754955.3	531.6	3.49	4.00	3.25	YES	
L0006621	0	0.14230E-05	484900.4	3754955.3	531.6	3.49	4.00	3.25	YES	
L0006622	0	0.14230E-05	484909.0	3754955.4	531.6	3.49	4.00	3.25	YES	
L0006623	0	0.14230E-05	484917.6	3754955.4	531.6	3.49	4.00	3.25	YES	
L0006624	0	0.14230E-05	484926.2	3754955.5	531.6	3.49	4.00	3.25	YES	
L0006625	0	0.14230E-05	484934.8	3754955.5	531.6	3.49	4.00	3.25	YES	

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006626	0	0.14230E-05	484943.4	3754955.5	531.6	3.49	4.00	3.25 YES
L0006627	0	0.14230E-05	484952.0	3754955.6	531.6	3.49	4.00	3.25 YES
L0006628	0	0.14230E-05	484960.6	3754955.6	531.6	3.49	4.00	3.25 YES
L0006629	0	0.14230E-05	484969.2	3754955.7	531.3	3.49	4.00	3.25 YES
L0006630	0	0.14230E-05	484977.8	3754955.7	531.1	3.49	4.00	3.25 YES
L0006631	0	0.14230E-05	484986.3	3754955.8	530.8	3.49	4.00	3.25 YES
L0006632	0	0.14230E-05	484994.9	3754955.8	530.6	3.49	4.00	3.25 YES
L0006633	0	0.14230E-05	485003.5	3754955.8	530.6	3.49	4.00	3.25 YES
L0006634	0	0.14230E-05	485012.1	3754955.9	530.6	3.49	4.00	3.25 YES
L0006635	0	0.14230E-05	485020.7	3754955.9	530.6	3.49	4.00	3.25 YES
L0006636	0	0.14230E-05	485029.3	3754956.0	530.6	3.49	4.00	3.25 YES
L0006637	0	0.14230E-05	485037.9	3754956.0	530.6	3.49	4.00	3.25 YES
L0006638	0	0.14230E-05	485046.5	3754956.0	530.7	3.49	4.00	3.25 YES
L0006639	0	0.14230E-05	485055.1	3754956.1	530.7	3.49	4.00	3.25 YES
L0006640	0	0.14230E-05	485063.7	3754956.1	530.7	3.49	4.00	3.25 YES
L0006641	0	0.14230E-05	485072.2	3754956.2	530.7	3.49	4.00	3.25 YES
L0006642	0	0.14230E-05	485080.8	3754956.2	530.6	3.49	4.00	3.25 YES
L0006643	0	0.14230E-05	485089.4	3754956.3	530.5	3.49	4.00	3.25 YES
L0006644	0	0.14230E-05	485098.0	3754956.3	530.3	3.49	4.00	3.25 YES
L0006645	0	0.14230E-05	485106.6	3754956.3	530.1	3.49	4.00	3.25 YES
L0006646	0	0.14230E-05	485115.2	3754956.4	529.9	3.49	4.00	3.25 YES
L0006647	0	0.14230E-05	485123.8	3754956.4	529.8	3.49	4.00	3.25 YES
L0006648	0	0.14230E-05	485132.4	3754956.5	529.8	3.49	4.00	3.25 YES
L0006649	0	0.14230E-05	485141.0	3754956.5	529.7	3.49	4.00	3.25 YES
L0006650	0	0.14230E-05	485149.6	3754956.5	529.7	3.49	4.00	3.25 YES

```
 L0006651         0   0.14230E-05  485158.1 3754956.6   529.7     3.49     4.00
3.25     YES
 L0006652         0   0.14230E-05  485166.7 3754956.6   529.7     3.49     4.00
3.25     YES
 L0006653         0   0.14230E-05  485175.3 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006654         0   0.14230E-05  485183.9 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006655         0   0.14230E-05  485192.5 3754956.7   529.7     3.49     4.00
3.25     YES
 L0006656         0   0.14230E-05  485201.1 3754956.8   529.7     3.49     4.00
3.25     YES
 L0006657         0   0.14230E-05  485209.7 3754956.8   529.5     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006658         0   0.14230E-05  485218.3 3754956.9   529.3     3.49     4.00
3.25     YES
 L0006659         0   0.14230E-05  485226.9 3754956.9   529.1     3.49     4.00
3.25     YES
 L0006660         0   0.14230E-05  485235.5 3754957.0   528.9     3.49     4.00
3.25     YES
 L0006661         0   0.14230E-05  485244.0 3754957.0   528.8     3.49     4.00
3.25     YES
 L0006662         0   0.14230E-05  485252.6 3754957.0   528.8     3.49     4.00
3.25     YES
 L0006663         0   0.14230E-05  485261.2 3754957.1   528.7     3.49     4.00
3.25     YES
 L0006664         0   0.14230E-05  485269.8 3754957.1   528.7     3.49     4.00
3.25     YES
 L0006665         0   0.14230E-05  485278.4 3754957.2   528.7     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006666	0	0.14230E-05	485287.0	3754957.2	528.7	3.49	4.00	3.25 YES
L0006667	0	0.14230E-05	485295.6	3754957.2	528.6	3.49	4.00	3.25 YES
L0006668	0	0.14230E-05	485304.2	3754957.3	528.4	3.49	4.00	3.25 YES
L0006669	0	0.14230E-05	485312.8	3754957.3	528.2	3.49	4.00	3.25 YES
L0006670	0	0.14230E-05	485321.4	3754957.4	528.0	3.49	4.00	3.25 YES
L0006671	0	0.14230E-05	485329.9	3754957.4	528.0	3.49	4.00	3.25 YES
L0006672	0	0.14230E-05	485338.5	3754957.4	528.0	3.49	4.00	3.25 YES
L0006673	0	0.14230E-05	485347.1	3754957.5	528.0	3.49	4.00	3.25 YES
L0007433	0	0.23640E-05	484772.5	3754988.7	533.0	3.49	4.00	3.25 YES
L0007434	0	0.23640E-05	484772.5	3754980.1	533.0	3.49	4.00	3.25 YES
L0007435	0	0.23640E-05	484772.5	3754971.5	533.0	3.49	4.00	3.25 YES
L0007436	0	0.23640E-05	484772.6	3754962.9	532.9	3.49	4.00	3.25 YES
L0007437	0	0.23640E-05	484772.6	3754954.3	532.6	3.49	4.00	3.25 YES
L0007438	0	0.23640E-05	484777.3	3754952.0	532.5	3.49	4.00	3.25 YES
L0007439	0	0.23640E-05	484785.6	3754954.4	532.5	3.49	4.00	3.25 YES
L0007440	0	0.23640E-05	484793.8	3754956.7	532.4	3.49	4.00	3.25 YES
L0007441	0	0.23640E-05	484802.1	3754959.1	532.2	3.49	4.00	3.25 YES
L0007442	0	0.23640E-05	484810.3	3754961.5	532.0	3.49	4.00	3.25 YES
L0007443	0	0.23640E-05	484818.6	3754963.8	532.0	3.49	4.00	3.25 YES
L0007444	0	0.23640E-05	484826.9	3754966.2	532.0	3.49	4.00	3.25 YES
L0007445	0	0.23640E-05	484835.1	3754968.6	532.1	3.49	4.00	3.25 YES
L0007446	0	0.23640E-05	484843.7	3754968.9	532.1	3.49	4.00	3.25 YES
L0007447	0	0.23640E-05	484852.2	3754969.0	532.1	3.49	4.00	3.25 YES
L0007448	0	0.23640E-05	484860.8	3754969.0	532.1	3.49	4.00	3.25 YES
L0007449	0	0.23640E-05	484869.4	3754969.0	532.1	3.49	4.00	3.25 YES

```
 L0007450         0   0.23640E-05  484878.0 3754969.0   532.1     3.49     4.00
3.25     YES
 L0007451         0   0.23640E-05  484886.6 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007452         0   0.23640E-05  484895.2 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007453         0   0.23640E-05  484903.8 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007454         0   0.23640E-05  484912.4 3754969.1   532.1     3.49     4.00
3.25     YES
 L0007455         0   0.23640E-05  484921.0 3754969.2   532.1     3.49     4.00
3.25     YES
 L0007456         0   0.23640E-05  484929.6 3754969.2   532.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   4
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007457         0   0.23640E-05  484938.1 3754969.2   532.1     3.49     4.00
3.25     YES
 L0007458         0   0.23640E-05  484946.7 3754969.2   532.0     3.49     4.00
3.25     YES
 L0007459         0   0.23640E-05  484955.3 3754969.3   532.0     3.49     4.00
3.25     YES
 L0007460         0   0.23640E-05  484963.9 3754969.3   531.9     3.49     4.00
3.25     YES
 L0007461         0   0.23640E-05  484972.5 3754969.3   531.6     3.49     4.00
3.25     YES
 L0007462         0   0.23640E-05  484981.1 3754969.3   531.4     3.49     4.00
3.25     YES
 L0007463         0   0.23640E-05  484989.7 3754969.4   531.1     3.49     4.00
3.25     YES
 L0007464         0   0.23640E-05  484998.3 3754969.4   531.1     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007465	0	0.23640E-05	485006.9	3754969.4	531.1	3.49	4.00	3.25 YES
L0007466	0	0.23640E-05	485015.5	3754969.4	531.1	3.49	4.00	3.25 YES
L0007467	0	0.23640E-05	485024.0	3754969.5	531.1	3.49	4.00	3.25 YES
L0007468	0	0.23640E-05	485032.6	3754969.5	531.1	3.49	4.00	3.25 YES
L0007469	0	0.23640E-05	485041.2	3754969.5	531.0	3.49	4.00	3.25 YES
L0007470	0	0.23640E-05	485049.8	3754969.5	531.0	3.49	4.00	3.25 YES
L0007471	0	0.23640E-05	485058.4	3754969.6	531.0	3.49	4.00	3.25 YES
L0007472	0	0.23640E-05	485067.0	3754969.6	531.0	3.49	4.00	3.25 YES
L0007473	0	0.23640E-05	485075.6	3754969.6	531.0	3.49	4.00	3.25 YES
L0007474	0	0.23640E-05	485084.2	3754969.6	530.9	3.49	4.00	3.25 YES
L0007475	0	0.23640E-05	485092.8	3754969.7	530.6	3.49	4.00	3.25 YES
L0007476	0	0.23640E-05	485101.3	3754969.7	530.4	3.49	4.00	3.25 YES
L0007477	0	0.23640E-05	485109.9	3754969.7	530.1	3.49	4.00	3.25 YES
L0007478	0	0.23640E-05	485118.5	3754969.7	530.1	3.49	4.00	3.25 YES
L0007479	0	0.23640E-05	485127.1	3754969.8	530.1	3.49	4.00	3.25 YES
L0007480	0	0.23640E-05	485135.7	3754969.8	530.1	3.49	4.00	3.25 YES
L0007481	0	0.23640E-05	485144.3	3754969.8	530.1	3.49	4.00	3.25 YES
L0007482	0	0.23640E-05	485152.9	3754969.8	530.1	3.49	4.00	3.25 YES
L0007483	0	0.23640E-05	485161.5	3754969.9	530.0	3.49	4.00	3.25 YES
L0007484	0	0.23640E-05	485170.1	3754969.9	530.0	3.49	4.00	3.25 YES
L0007485	0	0.23640E-05	485178.7	3754969.9	530.0	3.49	4.00	3.25 YES
L0007486	0	0.23640E-05	485187.2	3754969.9	530.0	3.49	4.00	3.25 YES
L0007487	0	0.23640E-05	485195.8	3754970.0	530.0	3.49	4.00	3.25 YES
L0007488	0	0.23640E-05	485204.4	3754970.0	529.9	3.49	4.00	3.25 YES
L0007489	0	0.23640E-05	485213.0	3754970.0	529.6	3.49	4.00	3.25 YES

```
 L0007490         0   0.23640E-05  485221.6 3754970.0   529.4     3.49     4.00
3.25     YES
 L0007491         0   0.23640E-05  485230.2 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007492         0   0.23640E-05  485238.8 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007493         0   0.23640E-05  485247.4 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007494         0   0.23640E-05  485256.0 3754970.1   529.1     3.49     4.00
3.25     YES
 L0007495         0   0.23640E-05  485264.6 3754970.2   529.1     3.49     4.00
3.25     YES
 L0007496         0   0.23640E-05  485273.1 3754970.2   529.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007497         0   0.23640E-05  485281.7 3754970.2   529.0     3.49     4.00
3.25     YES
 L0007498         0   0.23640E-05  485290.3 3754970.2   529.0     3.49     4.00
3.25     YES
 L0007499         0   0.23640E-05  485298.9 3754970.3   528.7     3.49     4.00
3.25     YES
 L0007500         0   0.23640E-05  485307.5 3754970.3   528.5     3.49     4.00
3.25     YES
 L0007501         0   0.23640E-05  485316.1 3754970.3   528.2     3.49     4.00
3.25     YES
 L0007502         0   0.23640E-05  485324.7 3754970.3   528.1     3.49     4.00
3.25     YES
 L0007503         0   0.23640E-05  485333.3 3754970.4   528.1     3.49     4.00
3.25     YES
 L0007504         0   0.23640E-05  485341.9 3754970.4   528.1     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007505	0	0.23640E-05	485350.5	3754970.4	528.1	3.49	4.00	3.25 YES
L0007506	0	0.23640E-05	485359.0	3754970.4	528.1	3.49	4.00	3.25 YES
L0007507	0	0.23640E-05	485367.6	3754970.5	528.1	3.49	4.00	3.25 YES
L0007508	0	0.23640E-05	485376.2	3754970.5	528.1	3.49	4.00	3.25 YES
L0007509	0	0.23640E-05	485384.8	3754970.5	528.1	3.49	4.00	3.25 YES
L0007510	0	0.23640E-05	485393.4	3754970.5	528.1	3.49	4.00	3.25 YES
L0007511	0	0.23640E-05	485402.0	3754970.6	528.0	3.49	4.00	3.25 YES
L0007512	0	0.23640E-05	485410.6	3754970.6	528.0	3.49	4.00	3.25 YES
L0007513	0	0.23640E-05	485414.1	3754965.5	528.0	3.49	4.00	3.25 YES
L0007514	0	0.23640E-05	485414.0	3754956.9	527.7	3.49	4.00	3.25 YES
L0007515	0	0.23640E-05	485414.0	3754948.3	527.4	3.49	4.00	3.25 YES
L0007516	0	0.23640E-05	485414.0	3754939.7	527.1	3.49	4.00	3.25 YES
L0007517	0	0.23640E-05	485414.0	3754931.1	527.0	3.49	4.00	3.25 YES
L0007518	0	0.23640E-05	485414.0	3754922.5	526.9	3.49	4.00	3.25 YES
L0007519	0	0.23640E-05	485414.0	3754914.0	526.9	3.49	4.00	3.25 YES
L0007520	0	0.23640E-05	485413.9	3754905.4	526.8	3.49	4.00	3.25 YES
L0007521	0	0.23640E-05	485413.9	3754896.8	526.6	3.49	4.00	3.25 YES
L0007522	0	0.23640E-05	485413.9	3754888.2	526.3	3.49	4.00	3.25 YES
L0007523	0	0.23640E-05	485413.9	3754879.6	526.1	3.49	4.00	3.25 YES
L0007524	0	0.23640E-05	485413.9	3754871.0	525.8	3.49	4.00	3.25 YES
L0007525	0	0.23640E-05	485413.9	3754862.4	525.5	3.49	4.00	3.25 YES
L0007526	0	0.23640E-05	485413.9	3754853.8	525.2	3.49	4.00	3.25 YES
L0007527	0	0.23640E-05	485413.8	3754845.2	525.0	3.49	4.00	3.25 YES
L0007528	0	0.23640E-05	485413.8	3754836.6	525.0	3.49	4.00	3.25 YES
L0007529	0	0.23640E-05	485413.8	3754828.1	525.0	3.49	4.00	3.25 YES

```
 L0007530         0   0.23640E-05  485413.8 3754819.5   525.0     3.49     4.00
3.25     YES
 L0007531         0   0.23640E-05  485413.8 3754810.9   524.8     3.49     4.00
3.25     YES
 L0007532         0   0.23640E-05  485413.8 3754802.3   524.5     3.49     4.00
3.25     YES
 L0007533         0   0.23640E-05  485413.7 3754793.7   524.2     3.49     4.00
3.25     YES
 L0007534         0   0.23640E-05  485413.7 3754785.1   524.0     3.49     4.00
3.25     YES
 L0007535         0   0.23640E-05  485413.7 3754776.5   523.7     3.49     4.00
3.25     YES
 L0007536         0   0.23640E-05  485413.7 3754767.9   523.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007537         0   0.23640E-05  485413.7 3754759.3   523.1     3.49     4.00
3.25     YES
 L0007538         0   0.23640E-05  485413.7 3754750.7   523.0     3.49     4.00
3.25     YES
 L0007539         0   0.23640E-05  485413.6 3754742.2   522.9     3.49     4.00
3.25     YES
 L0007540         0   0.23640E-05  485413.6 3754733.6   522.9     3.49     4.00
3.25     YES
 L0007541         0   0.23640E-05  485413.6 3754725.0   522.8     3.49     4.00
3.25     YES
 L0007542         0   0.23640E-05  485416.3 3754719.1   522.6     3.49     4.00
3.25     YES
 L0007543         0   0.23640E-05  485424.9 3754719.2   522.4     3.49     4.00
3.25     YES
 L0007544         0   0.23640E-05  485433.5 3754719.2   522.2     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007545	0	0.23640E-05	485442.1	3754719.2	522.0	3.49	4.00	3.25 YES
L0007546	0	0.23640E-05	485450.7	3754719.3	521.9	3.49	4.00	3.25 YES
L0007547	0	0.23640E-05	485459.3	3754719.3	521.8	3.49	4.00	3.25 YES
L0007548	0	0.23640E-05	485467.9	3754719.3	521.8	3.49	4.00	3.25 YES
L0007549	0	0.23640E-05	485476.4	3754719.4	521.8	3.49	4.00	3.25 YES
L0006847	0	0.41910E-06	484765.2	3755016.9	533.7	3.49	4.00	3.25 YES
L0006848	0	0.41910E-06	484756.6	3755017.1	533.7	3.49	4.00	3.25 YES
L0006849	0	0.41910E-06	484748.0	3755017.3	533.7	3.49	4.00	3.25 YES
L0006850	0	0.41910E-06	484739.4	3755017.5	533.7	3.49	4.00	3.25 YES
L0006851	0	0.41910E-06	484730.8	3755017.7	533.7	3.49	4.00	3.25 YES
L0006852	0	0.41910E-06	484722.2	3755017.8	533.7	3.49	4.00	3.25 YES
L0006853	0	0.41910E-06	484713.6	3755018.0	533.8	3.49	4.00	3.25 YES
L0006854	0	0.41910E-06	484705.0	3755018.2	533.9	3.49	4.00	3.25 YES
L0006855	0	0.41910E-06	484696.5	3755018.4	533.9	3.49	4.00	3.25 YES
L0006856	0	0.41910E-06	484687.9	3755018.6	534.0	3.49	4.00	3.25 YES
L0006857	0	0.41910E-06	484679.3	3755018.8	534.0	3.49	4.00	3.25 YES
L0006858	0	0.41910E-06	484670.7	3755018.9	534.0	3.49	4.00	3.25 YES
L0006859	0	0.41910E-06	484662.1	3755019.1	534.0	3.49	4.00	3.25 YES
L0006860	0	0.41910E-06	484653.5	3755019.3	534.2	3.49	4.00	3.25 YES
L0006861	0	0.41910E-06	484644.9	3755019.5	534.4	3.49	4.00	3.25 YES
L0006862	0	0.41910E-06	484636.3	3755019.7	534.6	3.49	4.00	3.25 YES
L0006863	0	0.41910E-06	484627.8	3755019.8	534.8	3.49	4.00	3.25 YES
L0006864	0	0.41910E-06	484619.2	3755020.5	534.8	3.49	4.00	3.25 YES
L0006865	0	0.41910E-06	484610.7	3755021.5	534.8	3.49	4.00	3.25 YES
L0006866	0	0.41910E-06	484602.1	3755022.5	534.9	3.49	4.00	3.25 YES

```
 L0006867         0   0.41910E-06  484593.6 3755023.5   534.9     3.49     4.00
3.25     YES
 L0006868         0   0.41910E-06  484585.1 3755024.5   534.9     3.49     4.00
3.25     YES
 L0006869         0   0.41910E-06  484576.5 3755025.5   535.0     3.49     4.00
3.25     YES
 L0006870         0   0.41910E-06  484568.0 3755026.5   535.0     3.49     4.00
3.25     YES
 L0006871         0   0.41910E-06  484559.5 3755027.5   535.0     3.49     4.00
3.25     YES
 L0006872         0   0.41910E-06  484550.9 3755028.5   535.0     3.49     4.00
3.25     YES
 L0006873         0   0.41910E-06  484542.5 3755030.0   535.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                   PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006874         0   0.41910E-06  484534.3 3755032.6   535.0     3.49     4.00
3.25     YES
 L0006875         0   0.41910E-06  484526.1 3755035.2   535.0     3.49     4.00
3.25     YES
 L0006876         0   0.41910E-06  484517.9 3755037.7   535.0     3.49     4.00
3.25     YES
 L0006877         0   0.41910E-06  484509.7 3755040.3   535.0     3.49     4.00
3.25     YES
 L0006878         0   0.41910E-06  484501.5 3755042.9   535.0     3.49     4.00
3.25     YES
 L0006879         0   0.41910E-06  484493.4 3755045.5   535.0     3.49     4.00
3.25     YES
 L0006880         0   0.41910E-06  484485.2 3755048.0   535.0     3.49     4.00
3.25     YES
 L0006881         0   0.41910E-06  484477.0 3755050.6   535.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006882	0	0.41910E-06	484468.8	3755053.2	535.0	3.49	4.00	3.25 YES
L0006883	0	0.41910E-06	484460.6	3755055.8	535.0	3.49	4.00	3.25 YES
L0006884	0	0.41910E-06	484452.4	3755058.4	535.1	3.49	4.00	3.25 YES
L0006885	0	0.41910E-06	484444.2	3755060.9	535.1	3.49	4.00	3.25 YES
L0006886	0	0.41910E-06	484436.1	3755063.7	535.2	3.49	4.00	3.25 YES
L0006887	0	0.41910E-06	484428.2	3755067.2	535.4	3.49	4.00	3.25 YES
L0006888	0	0.41910E-06	484420.4	3755070.8	535.5	3.49	4.00	3.25 YES
L0006889	0	0.41910E-06	484412.6	3755074.3	535.6	3.49	4.00	3.25 YES
L0006890	0	0.41910E-06	484404.8	3755077.9	535.7	3.49	4.00	3.25 YES
L0006891	0	0.41910E-06	484396.9	3755081.4	535.8	3.49	4.00	3.25 YES
L0006892	0	0.41910E-06	484389.1	3755085.0	535.9	3.49	4.00	3.25 YES
L0006893	0	0.41910E-06	484381.3	3755088.5	536.1	3.49	4.00	3.25 YES
L0006894	0	0.41910E-06	484373.5	3755092.1	536.2	3.49	4.00	3.25 YES
L0006895	0	0.41910E-06	484365.7	3755095.6	536.3	3.49	4.00	3.25 YES
L0006896	0	0.41910E-06	484357.8	3755099.2	536.4	3.49	4.00	3.25 YES
L0006897	0	0.41910E-06	484350.0	3755102.7	536.5	3.49	4.00	3.25 YES
L0006898	0	0.41910E-06	484342.2	3755106.3	536.7	3.49	4.00	3.25 YES
L0006899	0	0.41910E-06	484334.4	3755109.8	536.8	3.49	4.00	3.25 YES
L0006900	0	0.41910E-06	484326.5	3755113.4	536.9	3.49	4.00	3.25 YES
L0006901	0	0.41910E-06	484318.7	3755116.8	537.0	3.49	4.00	3.25 YES
L0006902	0	0.41910E-06	484310.8	3755120.3	537.0	3.49	4.00	3.25 YES
L0006903	0	0.41910E-06	484303.0	3755123.8	537.0	3.49	4.00	3.25 YES
L0006904	0	0.41910E-06	484295.1	3755127.3	537.0	3.49	4.00	3.25 YES
L0006905	0	0.41910E-06	484287.2	3755130.4	537.0	3.49	4.00	3.25 YES
L0006906	0	0.41910E-06	484279.4	3755134.1	537.0	3.49	4.00	3.25 YES

```
 L0006907         0   0.41910E-06  484271.7 3755137.8   537.0     3.49     4.00
3.25     YES
 L0006908         0   0.41910E-06  484263.9 3755141.4   537.0     3.49     4.00
3.25     YES
 L0006909         0   0.41910E-06  484256.1 3755145.1   537.0     3.49     4.00
3.25     YES
 L0006910         0   0.41910E-06  484248.4 3755148.8   537.1     3.49     4.00
3.25     YES
 L0006911         0   0.41910E-06  484240.6 3755152.5   537.2     3.49     4.00
3.25     YES
 L0006912         0   0.41910E-06  484232.8 3755156.1   537.3     3.49     4.00
3.25     YES
 L0006913         0   0.41910E-06  484225.1 3755159.8   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006914         0   0.41910E-06  484217.2 3755163.2   537.6     3.49     4.00
3.25     YES
 L0006915         0   0.41910E-06  484209.2 3755166.4   537.7     3.49     4.00
3.25     YES
 L0006916         0   0.41910E-06  484201.3 3755169.7   537.8     3.49     4.00
3.25     YES
 L0006917         0   0.41910E-06  484193.3 3755172.9   537.9     3.49     4.00
3.25     YES
 L0006918         0   0.41910E-06  484185.4 3755176.2   538.0     3.49     4.00
3.25     YES
 L0006919         0   0.41910E-06  484177.4 3755179.4   538.0     3.49     4.00
3.25     YES
 L0006920         0   0.41910E-06  484169.5 3755182.7   538.0     3.49     4.00
3.25     YES
 L0006921         0   0.41910E-06  484161.5 3755185.9   538.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006922	0	0.41910E-06	484153.6	3755189.2	538.0	3.49	4.00	3.25 YES
L0006923	0	0.41910E-06	484145.6	3755192.4	538.0	3.49	4.00	3.25 YES
L0006924	0	0.41910E-06	484137.4	3755194.9	538.0	3.49	4.00	3.25 YES
L0006925	0	0.41910E-06	484129.1	3755197.2	538.0	3.49	4.00	3.25 YES
L0006926	0	0.41910E-06	484120.8	3755199.5	538.0	3.49	4.00	3.25 YES
L0006927	0	0.41910E-06	484112.6	3755201.8	538.0	3.49	4.00	3.25 YES
L0006928	0	0.41910E-06	484104.3	3755204.0	538.0	3.49	4.00	3.25 YES
L0006929	0	0.41910E-06	484096.0	3755206.3	538.0	3.49	4.00	3.25 YES
L0006930	0	0.41910E-06	484087.7	3755208.6	538.1	3.49	4.00	3.25 YES
L0006931	0	0.41910E-06	484079.4	3755210.9	538.1	3.49	4.00	3.25 YES
L0006932	0	0.41910E-06	484071.1	3755213.0	538.2	3.49	4.00	3.25 YES
L0006933	0	0.41910E-06	484062.5	3755213.6	538.2	3.49	4.00	3.25 YES
L0006934	0	0.41910E-06	484054.0	3755214.2	538.3	3.49	4.00	3.25 YES
L0006935	0	0.41910E-06	484045.4	3755214.8	538.3	3.49	4.00	3.25 YES
L0006936	0	0.41910E-06	484036.8	3755215.4	538.3	3.49	4.00	3.25 YES
L0006937	0	0.41910E-06	484028.3	3755216.0	538.3	3.49	4.00	3.25 YES
L0006938	0	0.41910E-06	484019.7	3755216.7	538.2	3.49	4.00	3.25 YES
L0006939	0	0.41910E-06	484011.1	3755217.3	538.1	3.49	4.00	3.25 YES
L0006940	0	0.41910E-06	484002.6	3755217.9	538.0	3.49	4.00	3.25 YES
L0006941	0	0.41910E-06	483994.0	3755218.5	537.9	3.49	4.00	3.25 YES
L0006942	0	0.41910E-06	483985.4	3755219.1	537.7	3.49	4.00	3.25 YES
L0006943	0	0.41910E-06	483976.9	3755219.7	537.6	3.49	4.00	3.25 YES
L0006944	0	0.41910E-06	483968.3	3755220.1	537.5	3.49	4.00	3.25 YES
L0006945	0	0.41910E-06	483959.7	3755220.0	537.5	3.49	4.00	3.25 YES
L0006946	0	0.41910E-06	483951.1	3755220.0	537.4	3.49	4.00	3.25 YES

```
 L0006947         0   0.41910E-06  483942.5 3755219.9   537.4     3.49     4.00
3.25     YES
 L0006948         0   0.41910E-06  483933.9 3755219.9   537.4     3.49     4.00
3.25     YES
 L0006949         0   0.41910E-06  483925.3 3755219.8   537.4     3.49     4.00
3.25     YES
 L0006950         0   0.41910E-06  483916.7 3755219.7   537.4     3.49     4.00
3.25     YES
 L0006951         0   0.41910E-06  483908.2 3755219.7   537.4     3.49     4.00
3.25     YES
 L0006952         0   0.41910E-06  483899.6 3755219.6   537.4     3.49     4.00
3.25     YES
 L0006953         0   0.41910E-06  483891.0 3755219.6   537.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006954         0   0.41910E-06  483882.4 3755219.5   537.4     3.49     4.00
3.25     YES
 L0006955         0   0.41910E-06  483873.8 3755219.4   537.4     3.49     4.00
3.25     YES
 L0006956         0   0.41910E-06  483865.2 3755219.4   537.4     3.49     4.00
3.25     YES
 L0006957         0   0.41910E-06  483856.6 3755219.3   537.4     3.49     4.00
3.25     YES
 L0006958         0   0.41910E-06  483848.0 3755219.3   537.4     3.49     4.00
3.25     YES
 L0006959         0   0.41910E-06  483839.4 3755219.2   537.3     3.49     4.00
3.25     YES
 L0006960         0   0.41910E-06  483830.8 3755219.1   537.1     3.49     4.00
3.25     YES
 L0006961         0   0.41910E-06  483822.3 3755219.1   537.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0006962	0	0.41910E-06	483813.7	3755219.0	536.9	3.49	4.00	3.25 YES
L0006963	0	0.41910E-06	483805.1	3755219.0	536.7	3.49	4.00	3.25 YES
L0006964	0	0.41910E-06	483796.5	3755218.9	536.5	3.49	4.00	3.25 YES
L0006965	0	0.41910E-06	483787.9	3755218.8	536.5	3.49	4.00	3.25 YES
L0006966	0	0.41910E-06	483779.3	3755218.8	536.6	3.49	4.00	3.25 YES
L0006967	0	0.41910E-06	483770.7	3755218.7	536.8	3.49	4.00	3.25 YES
L0006968	0	0.41910E-06	483762.1	3755218.6	537.0	3.49	4.00	3.25 YES
L0006969	0	0.41910E-06	483753.5	3755218.6	537.0	3.49	4.00	3.25 YES
L0006970	0	0.41910E-06	483745.0	3755218.5	537.0	3.49	4.00	3.25 YES
L0006971	0	0.41910E-06	483736.4	3755218.5	537.0	3.49	4.00	3.25 YES
L0006972	0	0.41910E-06	483727.8	3755218.4	537.0	3.49	4.00	3.25 YES
L0006973	0	0.41910E-06	483719.2	3755218.3	537.0	3.49	4.00	3.25 YES
L0006974	0	0.41910E-06	483710.6	3755218.5	537.0	3.49	4.00	3.25 YES
L0006975	0	0.41910E-06	483702.0	3755218.7	537.0	3.49	4.00	3.25 YES
L0006976	0	0.41910E-06	483693.4	3755218.9	537.0	3.49	4.00	3.25 YES
L0006977	0	0.41910E-06	483684.8	3755219.2	537.0	3.49	4.00	3.25 YES
L0006978	0	0.41910E-06	483676.2	3755219.4	537.0	3.49	4.00	3.25 YES
L0006979	0	0.41910E-06	483667.7	3755219.6	537.1	3.49	4.00	3.25 YES
L0006980	0	0.41910E-06	483659.1	3755219.8	537.4	3.49	4.00	3.25 YES
L0006981	0	0.41910E-06	483650.5	3755220.0	537.6	3.49	4.00	3.25 YES
L0006982	0	0.41910E-06	483641.9	3755220.3	537.9	3.49	4.00	3.25 YES
L0006983	0	0.41910E-06	483633.3	3755220.5	538.1	3.49	4.00	3.25 YES
L0006984	0	0.41910E-06	483624.7	3755220.7	538.3	3.49	4.00	3.25 YES
L0006985	0	0.41910E-06	483616.1	3755220.9	538.4	3.49	4.00	3.25 YES
L0006986	0	0.41910E-06	483607.5	3755221.1	538.6	3.49	4.00	3.25 YES

```
 L0006987         0   0.41910E-06  483599.0 3755221.4   538.9     3.49     4.00
3.25     YES
 L0006988         0   0.41910E-06  483590.4 3755221.6   539.2     3.49     4.00
3.25     YES
 L0006989         0   0.41910E-06  483581.8 3755221.8   539.4     3.49     4.00
3.25     YES
 L0006990         0   0.41910E-06  483573.2 3755222.0   539.4     3.49     4.00
3.25     YES
 L0006991         0   0.41910E-06  483564.6 3755222.2   539.3     3.49     4.00
3.25     YES
 L0006992         0   0.41910E-06  483556.0 3755222.5   539.1     3.49     4.00
3.25     YES
 L0006993         0   0.41910E-06  483547.4 3755222.7   539.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0006994         0   0.41910E-06  483538.9 3755222.9   539.0     3.49     4.00
3.25     YES
 L0006995         0   0.41910E-06  483530.3 3755223.1   539.0     3.49     4.00
3.25     YES
 L0006996         0   0.41910E-06  483521.7 3755223.3   539.0     3.49     4.00
3.25     YES
 L0006997         0   0.41910E-06  483513.1 3755223.6   539.0     3.49     4.00
3.25     YES
 L0006998         0   0.41910E-06  483506.5 3755225.7   539.0     3.49     4.00
3.25     YES
 L0006999         0   0.41910E-06  483506.7 3755234.3   539.0     3.49     4.00
3.25     YES
 L0007000         0   0.41910E-06  483506.9 3755242.9   539.3     3.49     4.00
3.25     YES
 L0007001         0   0.41910E-06  483507.0 3755251.5   539.7     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007002	0	0.41910E-06	483507.2	3755260.1	540.1	3.49	4.00	3.25 YES
L0007003	0	0.41910E-06	483507.3	3755268.7	540.5	3.49	4.00	3.25 YES
L0007004	0	0.41910E-06	483507.5	3755277.3	541.0	3.49	4.00	3.25 YES
L0007005	0	0.41910E-06	483507.6	3755285.9	541.4	3.49	4.00	3.25 YES
L0007006	0	0.41910E-06	483507.8	3755294.4	541.9	3.49	4.00	3.25 YES
L0007007	0	0.41910E-06	483508.0	3755303.0	542.3	3.49	4.00	3.25 YES
L0007008	0	0.41910E-06	483508.1	3755311.6	542.7	3.49	4.00	3.25 YES
L0007009	0	0.41910E-06	483508.3	3755320.2	543.1	3.49	4.00	3.25 YES
L0007010	0	0.41910E-06	483508.4	3755328.8	543.7	3.49	4.00	3.25 YES
L0007011	0	0.41910E-06	483508.6	3755337.4	544.8	3.49	4.00	3.25 YES
L0007012	0	0.41910E-06	483508.7	3755346.0	546.0	3.49	4.00	3.25 YES
L0007013	0	0.41910E-06	483508.9	3755354.6	547.1	3.49	4.00	3.25 YES
L0007014	0	0.41910E-06	483509.1	3755363.1	547.6	3.49	4.00	3.25 YES
L0007015	0	0.41910E-06	483509.2	3755371.7	547.9	3.49	4.00	3.25 YES
L0007016	0	0.41910E-06	483509.4	3755380.3	548.1	3.49	4.00	3.25 YES
L0007017	0	0.41910E-06	483509.5	3755388.9	548.3	3.49	4.00	3.25 YES
L0007018	0	0.41910E-06	483509.7	3755397.5	548.2	3.49	4.00	3.25 YES
L0007019	0	0.41910E-06	483509.8	3755406.1	548.1	3.49	4.00	3.25 YES
L0007020	0	0.41910E-06	483510.0	3755414.7	548.0	3.49	4.00	3.25 YES
L0007021	0	0.15740E-06	484782.1	3755018.5	533.7	3.49	4.00	3.25 YES
L0007022	0	0.15740E-06	484790.7	3755018.5	533.7	3.49	4.00	3.25 YES
L0007023	0	0.15740E-06	484799.3	3755018.6	533.7	3.49	4.00	3.25 YES
L0007024	0	0.15740E-06	484807.9	3755018.6	533.7	3.49	4.00	3.25 YES
L0007025	0	0.15740E-06	484816.5	3755018.6	533.7	3.49	4.00	3.25 YES
L0007026	0	0.15740E-06	484825.1	3755018.7	533.7	3.49	4.00	3.25 YES

```
 L0007027         0   0.15740E-06  484833.7 3755018.7   533.7     3.49     4.00
3.25     YES
 L0007028         0   0.15740E-06  484842.3 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007029         0   0.15740E-06  484850.8 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007030         0   0.15740E-06  484859.4 3755018.8   533.8     3.49     4.00
3.25     YES
 L0007031         0   0.15740E-06  484868.0 3755018.9   533.8     3.49     4.00
3.25     YES
 L0007032         0   0.15740E-06  484876.6 3755018.9   533.6     3.49     4.00
3.25     YES
 L0007033         0   0.15740E-06  484885.2 3755019.0   533.4     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007034         0   0.15740E-06  484893.8 3755019.0   533.2     3.49     4.00
3.25     YES
 L0007035         0   0.15740E-06  484902.4 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007036         0   0.15740E-06  484911.0 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007037         0   0.15740E-06  484919.6 3755019.1   533.0     3.49     4.00
3.25     YES
 L0007038         0   0.15740E-06  484928.2 3755019.2   533.0     3.49     4.00
3.25     YES
 L0007039         0   0.15740E-06  484936.7 3755019.2   532.9     3.49     4.00
3.25     YES
 L0007040         0   0.15740E-06  484945.3 3755019.3   532.9     3.49     4.00
3.25     YES
 L0007041         0   0.15740E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007042	0	0.15740E-06	484962.5	3755019.4	532.8	3.49	4.00	3.25 YES
L0007043	0	0.15740E-06	484971.1	3755019.4	532.8	3.49	4.00	3.25 YES
L0007044	0	0.15740E-06	484979.7	3755019.4	532.8	3.49	4.00	3.25 YES
L0007045	0	0.15740E-06	484988.3	3755019.5	532.8	3.49	4.00	3.25 YES
L0007046	0	0.15740E-06	484996.9	3755019.5	532.8	3.49	4.00	3.25 YES
L0007047	0	0.15740E-06	485005.5	3755019.6	532.8	3.49	4.00	3.25 YES
L0007048	0	0.15740E-06	485014.1	3755019.6	532.8	3.49	4.00	3.25 YES
L0007049	0	0.15740E-06	485022.6	3755019.6	532.7	3.49	4.00	3.25 YES
L0007050	0	0.15740E-06	485031.2	3755019.7	532.4	3.49	4.00	3.25 YES
L0007051	0	0.15740E-06	485039.8	3755019.7	532.1	3.49	4.00	3.25 YES
L0007052	0	0.15740E-06	485048.4	3755019.8	531.8	3.49	4.00	3.25 YES
L0007053	0	0.15740E-06	485057.0	3755019.8	531.8	3.49	4.00	3.25 YES
L0007054	0	0.15740E-06	485065.6	3755019.9	531.8	3.49	4.00	3.25 YES
L0007055	0	0.15740E-06	485074.2	3755019.9	531.8	3.49	4.00	3.25 YES
L0007056	0	0.15740E-06	485082.8	3755019.9	531.8	3.49	4.00	3.25 YES
L0007057	0	0.15740E-06	485091.4	3755020.0	531.8	3.49	4.00	3.25 YES
L0007058	0	0.15740E-06	485100.0	3755020.0	531.8	3.49	4.00	3.25 YES
L0007059	0	0.15740E-06	485108.5	3755020.1	531.8	3.49	4.00	3.25 YES
L0007060	0	0.15740E-06	485117.1	3755020.1	531.6	3.49	4.00	3.25 YES
L0007061	0	0.15740E-06	485125.7	3755020.1	531.4	3.49	4.00	3.25 YES
L0007062	0	0.15740E-06	485134.3	3755020.2	531.1	3.49	4.00	3.25 YES
L0007063	0	0.15740E-06	485142.9	3755020.2	531.0	3.49	4.00	3.25 YES
L0007064	0	0.15740E-06	485151.5	3755020.3	530.9	3.49	4.00	3.25 YES
L0007065	0	0.15740E-06	485160.1	3755020.3	530.9	3.49	4.00	3.25 YES
L0007066	0	0.15740E-06	485168.7	3755020.4	530.8	3.49	4.00	3.25 YES

```
 L0007067         0   0.15740E-06  485177.3 3755020.4   530.8     3.49     4.00
3.25     YES
 L0007068         0   0.15740E-06  485185.8 3755020.4   530.8     3.49     4.00
3.25     YES
 L0007069         0   0.15740E-06  485194.4 3755020.5   530.8     3.49     4.00
3.25     YES
 L0007070         0   0.15740E-06  485203.0 3755020.5   530.8     3.49     4.00
3.25     YES
 L0007071         0   0.15740E-06  485211.6 3755020.6   530.8     3.49     4.00
3.25     YES
 L0007072         0   0.15740E-06  485220.2 3755020.6   530.8     3.49     4.00
3.25     YES
 L0007073         0   0.15740E-06  485228.8 3755020.7   530.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***       04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007074         0   0.15740E-06  485237.4 3755020.7   530.6     3.49     4.00
3.25     YES
 L0007075         0   0.15740E-06  485246.0 3755020.7   530.4     3.49     4.00
3.25     YES
 L0007076         0   0.15740E-06  485254.6 3755020.8   530.1     3.49     4.00
3.25     YES
 L0007077         0   0.15740E-06  485263.2 3755020.8   530.0     3.49     4.00
3.25     YES
 L0007078         0   0.15740E-06  485271.7 3755020.9   529.9     3.49     4.00
3.25     YES
 L0007079         0   0.15740E-06  485280.3 3755020.9   529.9     3.49     4.00
3.25     YES
 L0007080         0   0.15740E-06  485288.9 3755020.9   529.8     3.49     4.00
3.25     YES
 L0007081         0   0.15740E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007082	0	0.15740E-06	485306.1	3755021.0	529.8	3.49	4.00	3.25 YES
L0007083	0	0.15740E-06	485314.7	3755021.1	529.8	3.49	4.00	3.25 YES
L0007084	0	0.15740E-06	485323.3	3755021.1	529.8	3.49	4.00	3.25 YES
L0007085	0	0.15740E-06	485331.9	3755021.2	529.8	3.49	4.00	3.25 YES
L0007086	0	0.15740E-06	485340.5	3755021.2	529.8	3.49	4.00	3.25 YES
L0007087	0	0.15740E-06	485349.1	3755021.2	529.8	3.49	4.00	3.25 YES
L0007088	0	0.15740E-06	485357.6	3755021.3	529.6	3.49	4.00	3.25 YES
L0007089	0	0.15740E-06	485366.2	3755021.3	529.4	3.49	4.00	3.25 YES
L0007090	0	0.15740E-06	485374.8	3755021.4	529.1	3.49	4.00	3.25 YES
L0007091	0	0.15740E-06	485383.4	3755021.4	529.0	3.49	4.00	3.25 YES
L0007092	0	0.15740E-06	485392.0	3755021.5	528.9	3.49	4.00	3.25 YES
L0007093	0	0.15740E-06	485400.6	3755021.5	528.9	3.49	4.00	3.25 YES
L0007094	0	0.15740E-06	485409.2	3755021.5	528.8	3.49	4.00	3.25 YES
L0007095	0	0.15740E-06	485417.8	3755021.6	528.8	3.49	4.00	3.25 YES
L0007096	0	0.15740E-06	485426.4	3755021.6	528.8	3.49	4.00	3.25 YES
L0007097	0	0.15740E-06	485435.0	3755021.7	528.8	3.49	4.00	3.25 YES
L0007098	0	0.15740E-06	485443.5	3755021.7	528.8	3.49	4.00	3.25 YES
L0007099	0	0.15740E-06	485452.1	3755021.7	528.8	3.49	4.00	3.25 YES
L0007100	0	0.15740E-06	485460.7	3755021.8	528.8	3.49	4.00	3.25 YES
L0007101	0	0.15740E-06	485469.3	3755021.8	528.8	3.49	4.00	3.25 YES
L0007102	0	0.15740E-06	485477.9	3755021.9	528.8	3.49	4.00	3.25 YES
L0007103	0	0.15740E-06	485486.5	3755021.9	528.8	3.49	4.00	3.25 YES
L0007104	0	0.15740E-06	485495.1	3755022.0	528.8	3.49	4.00	3.25 YES
L0007105	0	0.15740E-06	485503.7	3755022.0	528.8	3.49	4.00	3.25 YES
L0007106	0	0.15740E-06	485512.3	3755022.0	528.9	3.49	4.00	3.25 YES

```
 L0007107         0   0.15740E-06  485514.2 3755028.6   529.0     3.49     4.00
3.25     YES
 L0007108         0   0.15740E-06  485514.0 3755037.2   529.0     3.49     4.00
3.25     YES
 L0007109         0   0.15740E-06  485513.9 3755045.7   529.0     3.49     4.00
3.25     YES
 L0007110         0   0.15740E-06  485513.7 3755054.3   529.0     3.49     4.00
3.25     YES
 L0007111         0   0.15740E-06  485513.5 3755062.9   529.2     3.49     4.00
3.25     YES
 L0007112         0   0.15740E-06  485513.3 3755071.5   529.5     3.49     4.00
3.25     YES
 L0007113         0   0.15740E-06  485513.1 3755080.1   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007114         0   0.15740E-06  485513.0 3755088.7   530.1     3.49     4.00
3.25     YES
 L0007115         0   0.15740E-06  485512.8 3755097.3   530.4     3.49     4.00
3.25     YES
 L0007116         0   0.15740E-06  485512.6 3755105.9   530.6     3.49     4.00
3.25     YES
 L0007117         0   0.15740E-06  485512.4 3755114.5   530.9     3.49     4.00
3.25     YES
 L0007118         0   0.15740E-06  485512.3 3755123.0   531.1     3.49     4.00
3.25     YES
 L0007119         0   0.15740E-06  485512.1 3755131.6   531.2     3.49     4.00
3.25     YES
 L0007120         0   0.15740E-06  485511.9 3755140.2   531.3     3.49     4.00
3.25     YES
 L0007121         0   0.15740E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007122	0	0.15740E-06	485511.6	3755157.4	531.6	3.49	4.00	3.25 YES
L0007123	0	0.15740E-06	485511.4	3755166.0	531.8	3.49	4.00	3.25 YES
L0007124	0	0.15740E-06	485511.2	3755174.6	532.0	3.49	4.00	3.25 YES
L0007125	0	0.15740E-06	485511.0	3755183.2	532.2	3.49	4.00	3.25 YES
L0007126	0	0.15740E-06	485510.9	3755191.7	532.5	3.49	4.00	3.25 YES
L0007127	0	0.26250E-06	484782.1	3755018.5	533.7	3.49	4.00	3.25 YES
L0007128	0	0.26250E-06	484790.7	3755018.5	533.7	3.49	4.00	3.25 YES
L0007129	0	0.26250E-06	484799.3	3755018.6	533.7	3.49	4.00	3.25 YES
L0007130	0	0.26250E-06	484807.9	3755018.6	533.7	3.49	4.00	3.25 YES
L0007131	0	0.26250E-06	484816.5	3755018.6	533.7	3.49	4.00	3.25 YES
L0007132	0	0.26250E-06	484825.1	3755018.7	533.7	3.49	4.00	3.25 YES
L0007133	0	0.26250E-06	484833.7	3755018.7	533.7	3.49	4.00	3.25 YES
L0007134	0	0.26250E-06	484842.3	3755018.8	533.8	3.49	4.00	3.25 YES
L0007135	0	0.26250E-06	484850.8	3755018.8	533.8	3.49	4.00	3.25 YES
L0007136	0	0.26250E-06	484859.4	3755018.8	533.8	3.49	4.00	3.25 YES
L0007137	0	0.26250E-06	484868.0	3755018.9	533.8	3.49	4.00	3.25 YES
L0007138	0	0.26250E-06	484876.6	3755018.9	533.6	3.49	4.00	3.25 YES
L0007139	0	0.26250E-06	484885.2	3755019.0	533.4	3.49	4.00	3.25 YES
L0007140	0	0.26250E-06	484893.8	3755019.0	533.2	3.49	4.00	3.25 YES
L0007141	0	0.26250E-06	484902.4	3755019.1	533.0	3.49	4.00	3.25 YES
L0007142	0	0.26250E-06	484911.0	3755019.1	533.0	3.49	4.00	3.25 YES
L0007143	0	0.26250E-06	484919.6	3755019.1	533.0	3.49	4.00	3.25 YES
L0007144	0	0.26250E-06	484928.2	3755019.2	533.0	3.49	4.00	3.25 YES
L0007145	0	0.26250E-06	484936.7	3755019.2	532.9	3.49	4.00	3.25 YES
L0007146	0	0.26250E-06	484945.3	3755019.3	532.9	3.49	4.00	3.25 YES

```
 L0007147         0   0.26250E-06  484953.9 3755019.3   532.8     3.49     4.00
3.25     YES
 L0007148         0   0.26250E-06  484962.5 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007149         0   0.26250E-06  484971.1 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007150         0   0.26250E-06  484979.7 3755019.4   532.8     3.49     4.00
3.25     YES
 L0007151         0   0.26250E-06  484988.3 3755019.5   532.8     3.49     4.00
3.25     YES
 L0007152         0   0.26250E-06  484996.9 3755019.5   532.8     3.49     4.00
3.25     YES
 L0007153         0   0.26250E-06  485005.5 3755019.6   532.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007154         0   0.26250E-06  485014.1 3755019.6   532.8     3.49     4.00
3.25     YES
 L0007155         0   0.26250E-06  485022.6 3755019.6   532.7     3.49     4.00
3.25     YES
 L0007156         0   0.26250E-06  485031.2 3755019.7   532.4     3.49     4.00
3.25     YES
 L0007157         0   0.26250E-06  485039.8 3755019.7   532.1     3.49     4.00
3.25     YES
 L0007158         0   0.26250E-06  485048.4 3755019.8   531.8     3.49     4.00
3.25     YES
 L0007159         0   0.26250E-06  485057.0 3755019.8   531.8     3.49     4.00
3.25     YES
 L0007160         0   0.26250E-06  485065.6 3755019.9   531.8     3.49     4.00
3.25     YES
 L0007161         0   0.26250E-06  485074.2 3755019.9   531.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007162	0	0.26250E-06	485082.8	3755019.9	531.8	3.49	4.00	3.25 YES
L0007163	0	0.26250E-06	485091.4	3755020.0	531.8	3.49	4.00	3.25 YES
L0007164	0	0.26250E-06	485100.0	3755020.0	531.8	3.49	4.00	3.25 YES
L0007165	0	0.26250E-06	485108.5	3755020.1	531.8	3.49	4.00	3.25 YES
L0007166	0	0.26250E-06	485117.1	3755020.1	531.6	3.49	4.00	3.25 YES
L0007167	0	0.26250E-06	485125.7	3755020.1	531.4	3.49	4.00	3.25 YES
L0007168	0	0.26250E-06	485134.3	3755020.2	531.1	3.49	4.00	3.25 YES
L0007169	0	0.26250E-06	485142.9	3755020.2	531.0	3.49	4.00	3.25 YES
L0007170	0	0.26250E-06	485151.5	3755020.3	530.9	3.49	4.00	3.25 YES
L0007171	0	0.26250E-06	485160.1	3755020.3	530.9	3.49	4.00	3.25 YES
L0007172	0	0.26250E-06	485168.7	3755020.4	530.8	3.49	4.00	3.25 YES
L0007173	0	0.26250E-06	485177.3	3755020.4	530.8	3.49	4.00	3.25 YES
L0007174	0	0.26250E-06	485185.8	3755020.4	530.8	3.49	4.00	3.25 YES
L0007175	0	0.26250E-06	485194.4	3755020.5	530.8	3.49	4.00	3.25 YES
L0007176	0	0.26250E-06	485203.0	3755020.5	530.8	3.49	4.00	3.25 YES
L0007177	0	0.26250E-06	485211.6	3755020.6	530.8	3.49	4.00	3.25 YES
L0007178	0	0.26250E-06	485220.2	3755020.6	530.8	3.49	4.00	3.25 YES
L0007179	0	0.26250E-06	485228.8	3755020.7	530.8	3.49	4.00	3.25 YES
L0007180	0	0.26250E-06	485237.4	3755020.7	530.6	3.49	4.00	3.25 YES
L0007181	0	0.26250E-06	485246.0	3755020.7	530.4	3.49	4.00	3.25 YES
L0007182	0	0.26250E-06	485254.6	3755020.8	530.1	3.49	4.00	3.25 YES
L0007183	0	0.26250E-06	485263.2	3755020.8	530.0	3.49	4.00	3.25 YES
L0007184	0	0.26250E-06	485271.7	3755020.9	529.9	3.49	4.00	3.25 YES
L0007185	0	0.26250E-06	485280.3	3755020.9	529.9	3.49	4.00	3.25 YES
L0007186	0	0.26250E-06	485288.9	3755020.9	529.8	3.49	4.00	3.25 YES

```
 L0007187         0   0.26250E-06  485297.5 3755021.0   529.8     3.49     4.00
3.25     YES
 L0007188         0   0.26250E-06  485306.1 3755021.0   529.8     3.49     4.00
3.25     YES
 L0007189         0   0.26250E-06  485314.7 3755021.1   529.8     3.49     4.00
3.25     YES
 L0007190         0   0.26250E-06  485323.3 3755021.1   529.8     3.49     4.00
3.25     YES
 L0007191         0   0.26250E-06  485331.9 3755021.2   529.8     3.49     4.00
3.25     YES
 L0007192         0   0.26250E-06  485340.5 3755021.2   529.8     3.49     4.00
3.25     YES
 L0007193         0   0.26250E-06  485349.1 3755021.2   529.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007194         0   0.26250E-06  485357.6 3755021.3   529.6     3.49     4.00
3.25     YES
 L0007195         0   0.26250E-06  485366.2 3755021.3   529.4     3.49     4.00
3.25     YES
 L0007196         0   0.26250E-06  485374.8 3755021.4   529.1     3.49     4.00
3.25     YES
 L0007197         0   0.26250E-06  485383.4 3755021.4   529.0     3.49     4.00
3.25     YES
 L0007198         0   0.26250E-06  485392.0 3755021.5   528.9     3.49     4.00
3.25     YES
 L0007199         0   0.26250E-06  485400.6 3755021.5   528.9     3.49     4.00
3.25     YES
 L0007200         0   0.26250E-06  485409.2 3755021.5   528.8     3.49     4.00
3.25     YES
 L0007201         0   0.26250E-06  485417.8 3755021.6   528.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007202	0	0.26250E-06	485426.4	3755021.6	528.8	3.49	4.00	3.25 YES
L0007203	0	0.26250E-06	485435.0	3755021.7	528.8	3.49	4.00	3.25 YES
L0007204	0	0.26250E-06	485443.5	3755021.7	528.8	3.49	4.00	3.25 YES
L0007205	0	0.26250E-06	485452.1	3755021.7	528.8	3.49	4.00	3.25 YES
L0007206	0	0.26250E-06	485460.7	3755021.8	528.8	3.49	4.00	3.25 YES
L0007207	0	0.26250E-06	485469.3	3755021.8	528.8	3.49	4.00	3.25 YES
L0007208	0	0.26250E-06	485477.9	3755021.9	528.8	3.49	4.00	3.25 YES
L0007209	0	0.26250E-06	485486.5	3755021.9	528.8	3.49	4.00	3.25 YES
L0007210	0	0.26250E-06	485495.1	3755022.0	528.8	3.49	4.00	3.25 YES
L0007211	0	0.26250E-06	485503.7	3755022.0	528.8	3.49	4.00	3.25 YES
L0007212	0	0.26250E-06	485512.3	3755022.0	528.9	3.49	4.00	3.25 YES
L0007213	0	0.26250E-06	485514.2	3755028.6	529.0	3.49	4.00	3.25 YES
L0007214	0	0.26250E-06	485514.0	3755037.2	529.0	3.49	4.00	3.25 YES
L0007215	0	0.26250E-06	485513.9	3755045.7	529.0	3.49	4.00	3.25 YES
L0007216	0	0.26250E-06	485513.7	3755054.3	529.0	3.49	4.00	3.25 YES
L0007217	0	0.26250E-06	485513.5	3755062.9	529.2	3.49	4.00	3.25 YES
L0007218	0	0.26250E-06	485513.3	3755071.5	529.5	3.49	4.00	3.25 YES
L0007219	0	0.26250E-06	485513.1	3755080.1	529.8	3.49	4.00	3.25 YES
L0007220	0	0.26250E-06	485513.0	3755088.7	530.1	3.49	4.00	3.25 YES
L0007221	0	0.26250E-06	485512.8	3755097.3	530.4	3.49	4.00	3.25 YES
L0007222	0	0.26250E-06	485512.6	3755105.9	530.6	3.49	4.00	3.25 YES
L0007223	0	0.26250E-06	485512.4	3755114.5	530.9	3.49	4.00	3.25 YES
L0007224	0	0.26250E-06	485512.3	3755123.0	531.1	3.49	4.00	3.25 YES
L0007225	0	0.26250E-06	485512.1	3755131.6	531.2	3.49	4.00	3.25 YES
L0007226	0	0.26250E-06	485511.9	3755140.2	531.3	3.49	4.00	3.25 YES

```
 L0007227         0   0.26250E-06  485511.7 3755148.8   531.4     3.49     4.00
3.25     YES
 L0007228         0   0.26250E-06  485511.6 3755157.4   531.6     3.49     4.00
3.25     YES
 L0007229         0   0.26250E-06  485511.4 3755166.0   531.8     3.49     4.00
3.25     YES
 L0007230         0   0.26250E-06  485511.2 3755174.6   532.0     3.49     4.00
3.25     YES
 L0007231         0   0.26250E-06  485511.0 3755183.2   532.2     3.49     4.00
3.25     YES
 L0007232         0   0.26250E-06  485510.9 3755191.7   532.5     3.49     4.00
3.25     YES
 L0007667         0   0.52070E-07  485406.6 3755019.8   528.8     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007668         0   0.52070E-07  485415.2 3755020.0   528.8     3.49     4.00
3.25     YES
 L0007669         0   0.52070E-07  485423.8 3755020.2   528.8     3.49     4.00
3.25     YES
 L0007670         0   0.52070E-07  485432.4 3755020.4   528.8     3.49     4.00
3.25     YES
 L0007671         0   0.52070E-07  485441.0 3755020.5   528.8     3.49     4.00
3.25     YES
 L0007672         0   0.52070E-07  485449.6 3755020.7   528.8     3.49     4.00
3.25     YES
 L0007673         0   0.52070E-07  485458.1 3755020.9   528.8     3.49     4.00
3.25     YES
 L0007674         0   0.52070E-07  485466.7 3755021.1   528.8     3.49     4.00
3.25     YES
 L0007675         0   0.52070E-07  485475.3 3755021.2   528.8     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007676	0	0.52070E-07	485483.9	3755021.4	528.8	3.49	4.00	3.25 YES
L0007677	0	0.52070E-07	485492.5	3755021.6	528.8	3.49	4.00	3.25 YES
L0007678	0	0.52070E-07	485501.1	3755021.8	528.8	3.49	4.00	3.25 YES
L0007679	0	0.52070E-07	485509.7	3755022.0	528.8	3.49	4.00	3.25 YES
L0007680	0	0.52070E-07	485514.3	3755026.0	529.0	3.49	4.00	3.25 YES
L0007681	0	0.52070E-07	485514.3	3755034.6	529.0	3.49	4.00	3.25 YES
L0007682	0	0.52070E-07	485514.2	3755043.2	529.0	3.49	4.00	3.25 YES
L0007683	0	0.52070E-07	485514.2	3755051.7	529.0	3.49	4.00	3.25 YES
L0007684	0	0.52070E-07	485514.1	3755060.3	529.1	3.49	4.00	3.25 YES
L0007685	0	0.52070E-07	485514.1	3755068.9	529.4	3.49	4.00	3.25 YES
L0007686	0	0.52070E-07	485514.0	3755077.5	529.7	3.49	4.00	3.25 YES
L0007687	0	0.52070E-07	485514.0	3755086.1	530.0	3.49	4.00	3.25 YES
L0007688	0	0.52070E-07	485514.0	3755094.7	530.3	3.49	4.00	3.25 YES
L0007689	0	0.52070E-07	485513.9	3755103.3	530.6	3.49	4.00	3.25 YES
L0007690	0	0.52070E-07	485513.9	3755111.9	530.8	3.49	4.00	3.25 YES
L0007691	0	0.52070E-07	485513.8	3755120.5	531.1	3.49	4.00	3.25 YES
L0007692	0	0.52070E-07	485513.8	3755129.1	531.2	3.49	4.00	3.25 YES
L0007693	0	0.52070E-07	485513.7	3755137.6	531.3	3.49	4.00	3.25 YES
L0007694	0	0.52070E-07	485513.7	3755146.2	531.4	3.49	4.00	3.25 YES
L0007695	0	0.52070E-07	485513.6	3755154.8	531.6	3.49	4.00	3.25 YES
L0007696	0	0.52070E-07	485513.6	3755163.4	531.8	3.49	4.00	3.25 YES
L0007697	0	0.52070E-07	485513.6	3755172.0	531.9	3.49	4.00	3.25 YES
L0007698	0	0.52070E-07	485513.5	3755180.6	532.1	3.49	4.00	3.25 YES
L0007699	0	0.52070E-07	485513.5	3755189.2	532.4	3.49	4.00	3.25 YES
L0007700	0	0.52070E-07	485513.4	3755197.8	532.7	3.49	4.00	3.25 YES

```
 L0007701         0   0.52070E-07  485513.4 3755206.4   533.0     3.49     4.00
3.25     YES
 L0007702         0   0.52070E-07  485513.3 3755215.0   533.6     3.49     4.00
3.25     YES
 L0007703         0   0.52070E-07  485513.3 3755223.5   534.1     3.49     4.00
3.25     YES
 L0007704         0   0.52070E-07  485513.3 3755232.1   534.7     3.49     4.00
3.25     YES
 L0007705         0   0.52070E-07  485513.2 3755240.7   535.1     3.49     4.00
3.25     YES
 L0007706         0   0.52070E-07  485513.2 3755249.3   535.4     3.49     4.00
3.25     YES
 L0007707         0   0.52070E-07  485513.1 3755257.9   535.7     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***       04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                   PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007708         0   0.52070E-07  485513.1 3755266.5   536.0     3.49     4.00
3.25     YES
 L0007709         0   0.52070E-07  485513.0 3755275.1   536.0     3.49     4.00
3.25     YES
 L0007710         0   0.52070E-07  485513.0 3755283.7   536.0     3.49     4.00
3.25     YES
 L0007711         0   0.52070E-07  485512.9 3755292.3   536.0     3.49     4.00
3.25     YES
 L0007712         0   0.52070E-07  485513.0 3755300.9   536.0     3.49     4.00
3.25     YES
 L0007713         0   0.52070E-07  485513.1 3755309.4   536.0     3.49     4.00
3.25     YES
 L0007714         0   0.52070E-07  485513.2 3755318.0   536.0     3.49     4.00
3.25     YES
 L0007715         0   0.52070E-07  485513.3 3755326.6   536.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007716	0	0.52070E-07	485513.4	3755335.2	536.1	3.49	4.00	3.25 YES
L0007717	0	0.52070E-07	485513.5	3755343.8	536.3	3.49	4.00	3.25 YES
L0007718	0	0.52070E-07	485513.6	3755352.4	536.4	3.49	4.00	3.25 YES
L0007719	0	0.52070E-07	485513.7	3755361.0	536.5	3.49	4.00	3.25 YES
L0007720	0	0.52070E-07	485513.8	3755369.6	536.7	3.49	4.00	3.25 YES
L0007721	0	0.52070E-07	485513.9	3755378.2	536.8	3.49	4.00	3.25 YES
L0007722	0	0.52070E-07	485514.0	3755386.7	537.0	3.49	4.00	3.25 YES
L0007723	0	0.52070E-07	485514.1	3755395.3	537.3	3.49	4.00	3.25 YES
L0007724	0	0.52070E-07	485514.2	3755403.9	537.6	3.49	4.00	3.25 YES
L0007725	0	0.52070E-07	485514.3	3755412.5	537.9	3.49	4.00	3.25 YES
L0007726	0	0.52070E-07	485514.4	3755421.1	538.1	3.49	4.00	3.25 YES
L0007727	0	0.52070E-07	485514.5	3755429.7	538.2	3.49	4.00	3.25 YES
L0007728	0	0.52070E-07	485514.6	3755438.3	538.4	3.49	4.00	3.25 YES
L0007729	0	0.52070E-07	485514.7	3755446.9	538.5	3.49	4.00	3.25 YES
L0007730	0	0.52070E-07	485514.8	3755455.5	538.7	3.49	4.00	3.25 YES
L0007731	0	0.52070E-07	485514.9	3755464.1	538.8	3.49	4.00	3.25 YES
L0007732	0	0.52070E-07	485515.0	3755472.6	538.9	3.49	4.00	3.25 YES
L0007733	0	0.52070E-07	485515.1	3755481.2	539.2	3.49	4.00	3.25 YES
L0007734	0	0.52070E-07	485515.2	3755489.8	539.4	3.49	4.00	3.25 YES
L0007735	0	0.52070E-07	485515.3	3755498.4	539.7	3.49	4.00	3.25 YES
L0007736	0	0.52070E-07	485515.3	3755507.0	540.0	3.49	4.00	3.25 YES
L0007737	0	0.52070E-07	485515.4	3755515.6	540.3	3.49	4.00	3.25 YES
L0007738	0	0.52070E-07	485515.5	3755524.2	540.6	3.49	4.00	3.25 YES
L0007739	0	0.52070E-07	485515.6	3755532.8	540.9	3.49	4.00	3.25 YES
L0007740	0	0.52070E-07	485515.7	3755541.4	541.0	3.49	4.00	3.25 YES

```
 L0007741         0   0.52070E-07  485515.8 3755549.9   541.0     3.49     4.00
3.25     YES
 L0007742         0   0.52070E-07  485515.9 3755558.5   541.0     3.49     4.00
3.25     YES
 L0007743         0   0.52070E-07  485516.0 3755567.1   541.0     3.49     4.00
3.25     YES
 L0007744         0   0.52070E-07  485516.1 3755575.7   541.3     3.49     4.00
3.25     YES
 L0007745         0   0.52070E-07  485516.2 3755584.3   541.6     3.49     4.00
3.25     YES
 L0007746         0   0.52070E-07  485516.3 3755592.9   541.9     3.49     4.00
3.25     YES
 L0007747         0   0.52070E-07  485516.4 3755601.5   542.2     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:23:11

                                   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007748         0   0.52070E-07  485516.5 3755610.1   542.5     3.49     4.00
3.25     YES
 L0007749         0   0.52070E-07  485516.6 3755618.7   542.7     3.49     4.00
3.25     YES
 L0007750         0   0.52070E-07  485516.7 3755627.3   543.0     3.49     4.00
3.25     YES
 L0007751         0   0.52070E-07  485516.8 3755635.8   543.3     3.49     4.00
3.25     YES
 L0007752         0   0.52070E-07  485516.9 3755644.4   543.6     3.49     4.00
3.25     YES
 L0007753         0   0.52070E-07  485517.0 3755653.0   543.9     3.49     4.00
3.25     YES
 L0007754         0   0.52070E-07  485517.1 3755661.6   544.0     3.49     4.00
3.25     YES
 L0007755         0   0.52070E-07  485517.2 3755670.2   544.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007322	0	0.15590E-06	485512.5	3754719.0	521.8	3.49	4.00	3.25 YES
L0007323	0	0.15590E-06	485512.5	3754727.6	522.0	3.49	4.00	3.25 YES
L0007324	0	0.15590E-06	485512.5	3754736.2	522.2	3.49	4.00	3.25 YES
L0007325	0	0.15590E-06	485512.5	3754744.8	522.4	3.49	4.00	3.25 YES
L0007326	0	0.15590E-06	485512.5	3754753.4	522.5	3.49	4.00	3.25 YES
L0007327	0	0.15590E-06	485512.5	3754761.9	522.7	3.49	4.00	3.25 YES
L0007328	0	0.15590E-06	485512.5	3754770.5	522.8	3.49	4.00	3.25 YES
L0007329	0	0.15590E-06	485512.5	3754779.1	522.9	3.49	4.00	3.25 YES
L0007330	0	0.15590E-06	485512.5	3754787.7	523.0	3.49	4.00	3.25 YES
L0007331	0	0.15590E-06	485512.5	3754796.3	523.3	3.49	4.00	3.25 YES
L0007332	0	0.15590E-06	485512.5	3754804.9	523.6	3.49	4.00	3.25 YES
L0007333	0	0.15590E-06	485512.5	3754813.5	523.9	3.49	4.00	3.25 YES
L0007334	0	0.15590E-06	485512.5	3754822.1	524.2	3.49	4.00	3.25 YES
L0007335	0	0.15590E-06	485512.5	3754830.7	524.5	3.49	4.00	3.25 YES
L0007336	0	0.15590E-06	485512.5	3754839.3	524.8	3.49	4.00	3.25 YES
L0007337	0	0.15590E-06	485512.5	3754847.8	525.0	3.49	4.00	3.25 YES
L0007338	0	0.15590E-06	485512.5	3754856.4	525.0	3.49	4.00	3.25 YES
L0007339	0	0.15590E-06	485512.5	3754865.0	525.0	3.49	4.00	3.25 YES
L0007340	0	0.15590E-06	485512.5	3754873.6	525.0	3.49	4.00	3.25 YES
L0007341	0	0.15590E-06	485512.5	3754882.2	525.2	3.49	4.00	3.25 YES
L0007342	0	0.15590E-06	485512.5	3754890.8	525.5	3.49	4.00	3.25 YES
L0007343	0	0.15590E-06	485512.5	3754899.4	525.8	3.49	4.00	3.25 YES
L0007344	0	0.15590E-06	485512.5	3754908.0	526.0	3.49	4.00	3.25 YES
L0007345	0	0.15590E-06	485512.5	3754916.6	526.3	3.49	4.00	3.25 YES
L0007346	0	0.15590E-06	485512.5	3754925.2	526.6	3.49	4.00	3.25 YES

```
 L0007347         0   0.15590E-06  485512.5 3754933.7   526.9     3.49     4.00
3.25     YES
 L0007348         0   0.15590E-06  485512.5 3754942.3   527.0     3.49     4.00
3.25     YES
 L0007349         0   0.15590E-06  485512.5 3754950.9   527.0     3.49     4.00
3.25     YES
 L0007350         0   0.15590E-06  485512.5 3754959.5   527.0     3.49     4.00
3.25     YES
 L0007351         0   0.15590E-06  485512.5 3754968.1   527.1     3.49     4.00
3.25     YES
 L0007352         0   0.15590E-06  485512.5 3754976.7   527.3     3.49     4.00
3.25     YES
 L0007353         0   0.15590E-06  485512.5 3754985.3   527.6     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                   PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007354         0   0.15590E-06  485512.5 3754993.9   527.9     3.49     4.00
3.25     YES
 L0007355         0   0.15590E-06  485512.5 3755002.5   528.2     3.49     4.00
3.25     YES
 L0007356         0   0.15590E-06  485512.5 3755011.1   528.5     3.49     4.00
3.25     YES
 L0007357         0   0.15590E-06  485512.5 3755019.6   528.8     3.49     4.00
3.25     YES
 L0007358         0   0.15590E-06  485512.5 3755028.2   529.0     3.49     4.00
3.25     YES
 L0007359         0   0.15590E-06  485512.5 3755036.8   529.0     3.49     4.00
3.25     YES
 L0007360         0   0.15590E-06  485512.5 3755045.4   529.0     3.49     4.00
3.25     YES
 L0007361         0   0.15590E-06  485512.5 3755054.0   529.0     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007362	0	0.15590E-06	485512.5	3755062.6	529.2	3.49	4.00	3.25 YES
L0007363	0	0.15590E-06	485512.5	3755071.2	529.5	3.49	4.00	3.25 YES
L0007364	0	0.15590E-06	485512.5	3755079.8	529.8	3.49	4.00	3.25 YES
L0007365	0	0.15590E-06	485512.5	3755088.4	530.1	3.49	4.00	3.25 YES
L0007366	0	0.15590E-06	485512.5	3755097.0	530.3	3.49	4.00	3.25 YES
L0007367	0	0.15590E-06	485512.5	3755105.5	530.6	3.49	4.00	3.25 YES
L0007368	0	0.15590E-06	485512.5	3755114.1	530.9	3.49	4.00	3.25 YES
L0007369	0	0.15590E-06	485512.5	3755122.7	531.1	3.49	4.00	3.25 YES
L0007370	0	0.15590E-06	485512.5	3755131.3	531.2	3.49	4.00	3.25 YES
L0007371	0	0.15590E-06	485512.5	3755139.9	531.3	3.49	4.00	3.25 YES
L0007372	0	0.15590E-06	485512.5	3755148.5	531.4	3.49	4.00	3.25 YES
L0007373	0	0.15590E-06	485512.5	3755157.1	531.6	3.49	4.00	3.25 YES
L0007374	0	0.15590E-06	485512.5	3755165.7	531.8	3.49	4.00	3.25 YES
L0007375	0	0.15590E-06	485512.5	3755174.3	532.0	3.49	4.00	3.25 YES
L0007376	0	0.15590E-06	485512.5	3755182.9	532.2	3.49	4.00	3.25 YES
L0007377	0	0.15590E-06	485512.5	3755191.4	532.5	3.49	4.00	3.25 YES
L0007378	0	0.51730E-07	485510.9	3755208.0	533.1	3.49	4.00	3.25 YES
L0007379	0	0.51730E-07	485511.0	3755216.6	533.7	3.49	4.00	3.25 YES
L0007380	0	0.51730E-07	485511.1	3755225.2	534.2	3.49	4.00	3.25 YES
L0007381	0	0.51730E-07	485511.2	3755233.8	534.8	3.49	4.00	3.25 YES
L0007382	0	0.51730E-07	485511.3	3755242.4	535.2	3.49	4.00	3.25 YES
L0007383	0	0.51730E-07	485511.4	3755250.9	535.5	3.49	4.00	3.25 YES
L0007384	0	0.51730E-07	485511.5	3755259.5	535.8	3.49	4.00	3.25 YES
L0007385	0	0.51730E-07	485511.6	3755268.1	536.0	3.49	4.00	3.25 YES
L0007386	0	0.51730E-07	485511.7	3755276.7	536.0	3.49	4.00	3.25 YES

```
 L0007387         0   0.51730E-07  485511.8 3755285.3   536.0     3.49     4.00
3.25     YES
 L0007388         0   0.51730E-07  485511.9 3755293.9   536.0     3.49     4.00
3.25     YES
 L0007389         0   0.51730E-07  485512.0 3755302.5   536.0     3.49     4.00
3.25     YES
 L0007390         0   0.51730E-07  485512.1 3755311.1   536.0     3.49     4.00
3.25     YES
 L0007391         0   0.51730E-07  485512.2 3755319.7   536.0     3.49     4.00
3.25     YES
 L0007392         0   0.51730E-07  485512.3 3755328.2   536.0     3.49     4.00
3.25     YES
 L0007393         0   0.51730E-07  485512.4 3755336.8   536.1     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0007394         0   0.51730E-07  485512.5 3755345.4   536.3     3.49     4.00
3.25     YES
 L0007395         0   0.51730E-07  485512.6 3755354.0   536.4     3.49     4.00
3.25     YES
 L0007396         0   0.51730E-07  485512.7 3755362.6   536.5     3.49     4.00
3.25     YES
 L0007397         0   0.51730E-07  485512.8 3755371.2   536.7     3.49     4.00
3.25     YES
 L0007398         0   0.51730E-07  485512.9 3755379.8   536.9     3.49     4.00
3.25     YES
 L0007399         0   0.51730E-07  485513.1 3755388.4   537.1     3.49     4.00
3.25     YES
 L0007400         0   0.51730E-07  485513.2 3755397.0   537.3     3.49     4.00
3.25     YES
 L0007401         0   0.51730E-07  485513.3 3755405.6   537.6     3.49     4.00
3.25     YES
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

L0007402	0	0.51730E-07	485513.4	3755414.1	537.9	3.49	4.00	3.25 YES
L0007403	0	0.51730E-07	485513.5	3755422.7	538.1	3.49	4.00	3.25 YES
L0007404	0	0.51730E-07	485513.6	3755431.3	538.3	3.49	4.00	3.25 YES
L0007405	0	0.51730E-07	485513.7	3755439.9	538.4	3.49	4.00	3.25 YES
L0007406	0	0.51730E-07	485513.8	3755448.5	538.6	3.49	4.00	3.25 YES
L0007407	0	0.51730E-07	485513.9	3755457.1	538.7	3.49	4.00	3.25 YES
L0007408	0	0.51730E-07	485514.0	3755465.7	538.8	3.49	4.00	3.25 YES
L0007409	0	0.51730E-07	485514.1	3755474.3	539.0	3.49	4.00	3.25 YES
L0007410	0	0.51730E-07	485514.2	3755482.9	539.2	3.49	4.00	3.25 YES
L0007411	0	0.51730E-07	485514.3	3755491.4	539.5	3.49	4.00	3.25 YES
L0007412	0	0.51730E-07	485514.4	3755500.0	539.8	3.49	4.00	3.25 YES
L0007413	0	0.51730E-07	485514.5	3755508.6	540.1	3.49	4.00	3.25 YES
L0007414	0	0.51730E-07	485514.6	3755517.2	540.4	3.49	4.00	3.25 YES
L0007415	0	0.51730E-07	485514.7	3755525.8	540.6	3.49	4.00	3.25 YES
L0007416	0	0.51730E-07	485514.8	3755534.4	540.9	3.49	4.00	3.25 YES
L0007417	0	0.51730E-07	485514.9	3755543.0	541.0	3.49	4.00	3.25 YES
L0007418	0	0.51730E-07	485515.0	3755551.6	541.0	3.49	4.00	3.25 YES
L0007419	0	0.51730E-07	485515.1	3755560.2	541.0	3.49	4.00	3.25 YES
L0007420	0	0.51730E-07	485515.2	3755568.8	541.1	3.49	4.00	3.25 YES
L0007421	0	0.51730E-07	485515.3	3755577.3	541.4	3.49	4.00	3.25 YES
L0007422	0	0.51730E-07	485515.4	3755585.9	541.6	3.49	4.00	3.25 YES
L0007423	0	0.51730E-07	485515.5	3755594.5	541.9	3.49	4.00	3.25 YES
L0007424	0	0.51730E-07	485515.6	3755603.1	542.2	3.49	4.00	3.25 YES
L0007425	0	0.51730E-07	485515.7	3755611.7	542.5	3.49	4.00	3.25 YES
L0007426	0	0.51730E-07	485515.8	3755620.3	542.8	3.49	4.00	3.25 YES

```
 L0007427         0   0.51730E-07  485515.9 3755628.9   543.1     3.49     4.00
3.25     YES
 L0007428         0   0.51730E-07  485516.0 3755637.5   543.4     3.49     4.00
3.25     YES
 L0007429         0   0.51730E-07  485516.1 3755646.1   543.7     3.49     4.00
3.25     YES
 L0007430         0   0.51730E-07  485516.2 3755654.6   543.9     3.49     4.00
3.25     YES
 L0007431         0   0.51730E-07  485516.3 3755663.2   544.0     3.49     4.00
3.25     YES
 L0007432         0   0.51730E-07  485516.4 3755671.8   544.0     3.49     4.00
3.25     YES
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                     PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ALL        L0006618    , L0006619    , L0006620    , L0006621    , L0006622    ,
L0006623    , L0006624    , L0006625    ,

             L0006626    , L0006627    , L0006628    , L0006629    , L0006630    ,
L0006631    , L0006632    , L0006633    ,

             L0006634    , L0006635    , L0006636    , L0006637    , L0006638    ,
L0006639    , L0006640    , L0006641    ,

             L0006642    , L0006643    , L0006644    , L0006645    , L0006646    ,
L0006647    , L0006648    , L0006649    ,

             L0006650    , L0006651    , L0006652    , L0006653    , L0006654    ,
L0006655    , L0006656    , L0006657    ,

             L0006658    , L0006659    , L0006660    , L0006661    , L0006662    ,
L0006663    , L0006664    , L0006665    ,

             L0006666    , L0006667    , L0006668    , L0006669    , L0006670    ,
L0006671    , L0006672    , L0006673    ,

             L0007433    , L0007434    , L0007435    , L0007436    , L0007437    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
L0007438    , L0007439    , L0007440    ,

             L0007441    , L0007442    , L0007443    , L0007444    , L0007445    ,
L0007446    , L0007447    , L0007448    ,

             L0007449    , L0007450    , L0007451    , L0007452    , L0007453    ,
L0007454    , L0007455    , L0007456    ,

             L0007457    , L0007458    , L0007459    , L0007460    , L0007461    ,
L0007462    , L0007463    , L0007464    ,

             L0007465    , L0007466    , L0007467    , L0007468    , L0007469    ,
L0007470    , L0007471    , L0007472    ,

             L0007473    , L0007474    , L0007475    , L0007476    , L0007477    ,
L0007478    , L0007479    , L0007480    ,

             L0007481    , L0007482    , L0007483    , L0007484    , L0007485    ,
L0007486    , L0007487    , L0007488    ,

             L0007489    , L0007490    , L0007491    , L0007492    , L0007493    ,
L0007494    , L0007495    , L0007496    ,

             L0007497    , L0007498    , L0007499    , L0007500    , L0007501    ,
L0007502    , L0007503    , L0007504    ,

             L0007505    , L0007506    , L0007507    , L0007508    , L0007509    ,
L0007510    , L0007511    , L0007512    ,

             L0007513    , L0007514    , L0007515    , L0007516    , L0007517    ,
L0007518    , L0007519    , L0007520    ,

             L0007521    , L0007522    , L0007523    , L0007524    , L0007525    ,
L0007526    , L0007527    , L0007528    ,

             L0007529    , L0007530    , L0007531    , L0007532    , L0007533    ,
L0007534    , L0007535    , L0007536    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

---

L0007537 , L0007538 , L0007539 , L0007540 , L0007541 , L0007542 , L0007543 , L0007544 ,

L0007545 , L0007546 , L0007547 , L0007548 , L0007549 , L0006847 , L0006848 , L0006849 ,

L0006850 , L0006851 , L0006852 , L0006853 , L0006854 , L0006855 , L0006856 , L0006857 ,

L0006858 , L0006859 , L0006860 , L0006861 , L0006862 , L0006863 , L0006864 , L0006865 ,

L0006866 , L0006867 , L0006868 , L0006869 , L0006870 , L0006871 , L0006872 , L0006873 ,

L0006874 , L0006875 , L0006876 , L0006877 , L0006878 , L0006879 , L0006880 , L0006881 ,

L0006882 , L0006883 , L0006884 , L0006885 , L0006886 , L0006887 , L0006888 , L0006889 ,

L0006890 , L0006891 , L0006892 , L0006893 , L0006894 , L0006895 , L0006896 , L0006897 ,

L0006898 , L0006899 , L0006900 , L0006901 , L0006902 , L0006903 , L0006904 , L0006905 ,

L0006906 , L0006907 , L0006908 , L0006909 , L0006910 , L0006911 , L0006912 , L0006913 ,

L0006914 , L0006915 , L0006916 , L0006917 , L0006918 , L0006919 , L0006920 , L0006921 ,

L0006922 , L0006923 , L0006924 , L0006925 , L0006926 , L0006927 , L0006928 , L0006929 ,

L0006930 , L0006931 , L0006932 , L0006933 , L0006934 , L0006935 , L0006936 , L0006937 ,

L0006938 , L0006939 , L0006940 , L0006941 , L0006942 , L0006943 , L0006944 , L0006945 ,

L0006946 , L0006947 , L0006948 , L0006949 , L0006950 , L0006951 , L0006952 , L0006953 ,

L0006954 , L0006955 , L0006956 , L0006957 , L0006958 , L0006959 , L0006960 , L0006961 ,

```
             L0006962    , L0006963    , L0006964    , L0006965    , L0006966    ,
L0006967    , L0006968    , L0006969    ,

             L0006970    , L0006971    , L0006972    , L0006973    , L0006974    ,
L0006975    , L0006976    , L0006977    ,

             L0006978    , L0006979    , L0006980    , L0006981    , L0006982    ,
L0006983    , L0006984    , L0006985    ,

             L0006986    , L0006987    , L0006988    , L0006989    , L0006990    ,
L0006991    , L0006992    , L0006993    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:23:11

                                    PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


             L0006994    , L0006995    , L0006996    , L0006997    , L0006998    ,
L0006999    , L0007000    , L0007001    ,

             L0007002    , L0007003    , L0007004    , L0007005    , L0007006    ,
L0007007    , L0007008    , L0007009    ,

             L0007010    , L0007011    , L0007012    , L0007013    , L0007014    ,
L0007015    , L0007016    , L0007017    ,

             L0007018    , L0007019    , L0007020    , L0007021    , L0007022    ,
L0007023    , L0007024    , L0007025    ,

             L0007026    , L0007027    , L0007028    , L0007029    , L0007030    ,
L0007031    , L0007032    , L0007033    ,

             L0007034    , L0007035    , L0007036    , L0007037    , L0007038    ,
L0007039    , L0007040    , L0007041    ,

             L0007042    , L0007043    , L0007044    , L0007045    , L0007046    ,
L0007047    , L0007048    , L0007049    ,

             L0007050    , L0007051    , L0007052    , L0007053    , L0007054    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
L0007055    , L0007056    , L0007057    ,

             L0007058    , L0007059    , L0007060    , L0007061    , L0007062    ,
L0007063    , L0007064    , L0007065    ,

             L0007066    , L0007067    , L0007068    , L0007069    , L0007070    ,
L0007071    , L0007072    , L0007073    ,

             L0007074    , L0007075    , L0007076    , L0007077    , L0007078    ,
L0007079    , L0007080    , L0007081    ,

             L0007082    , L0007083    , L0007084    , L0007085    , L0007086    ,
L0007087    , L0007088    , L0007089    ,

             L0007090    , L0007091    , L0007092    , L0007093    , L0007094    ,
L0007095    , L0007096    , L0007097    ,

             L0007098    , L0007099    , L0007100    , L0007101    , L0007102    ,
L0007103    , L0007104    , L0007105    ,

             L0007106    , L0007107    , L0007108    , L0007109    , L0007110    ,
L0007111    , L0007112    , L0007113    ,

             L0007114    , L0007115    , L0007116    , L0007117    , L0007118    ,
L0007119    , L0007120    , L0007121    ,

             L0007122    , L0007123    , L0007124    , L0007125    , L0007126    ,
L0007127    , L0007128    , L0007129    ,

             L0007130    , L0007131    , L0007132    , L0007133    , L0007134    ,
L0007135    , L0007136    , L0007137    ,

             L0007138    , L0007139    , L0007140    , L0007141    , L0007142    ,
L0007143    , L0007144    , L0007145    ,

             L0007146    , L0007147    , L0007148    , L0007149    , L0007150    ,
L0007151    , L0007152    , L0007153    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                                SOURCE IDs
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

---

L0007154 , L0007155 , L0007156 , L0007157 , L0007158 , L0007159 , L0007160 , L0007161 ,

L0007162 , L0007163 , L0007164 , L0007165 , L0007166 , L0007167 , L0007168 , L0007169 ,

L0007170 , L0007171 , L0007172 , L0007173 , L0007174 , L0007175 , L0007176 , L0007177 ,

L0007178 , L0007179 , L0007180 , L0007181 , L0007182 , L0007183 , L0007184 , L0007185 ,

L0007186 , L0007187 , L0007188 , L0007189 , L0007190 , L0007191 , L0007192 , L0007193 ,

L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 ,

L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 ,

L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 ,

L0007218 , L0007219 , L0007220 , L0007221 , L0007222 , L0007223 , L0007224 , L0007225 ,

L0007226 , L0007227 , L0007228 , L0007229 , L0007230 , L0007231 , L0007232 , L0007667 ,

L0007668 , L0007669 , L0007670 , L0007671 , L0007672 , L0007673 , L0007674 , L0007675 ,

L0007676 , L0007677 , L0007678 , L0007679 , L0007680 , L0007681 , L0007682 , L0007683 ,

L0007684 , L0007685 , L0007686 , L0007687 , L0007688 , L0007689 , L0007690 , L0007691 ,

L0007692 , L0007693 , L0007694 , L0007695 , L0007696 , L0007697 , L0007698 , L0007699 ,

L0007700 , L0007701 , L0007702 , L0007703 , L0007704 , L0007705 , L0007706 , L0007707 ,

L0007708 , L0007709 , L0007710 , L0007711 , L0007712 , L0007713 , L0007714 , L0007715 ,

```
             L0007716    , L0007717    , L0007718    , L0007719    , L0007720    ,
L0007721    , L0007722    , L0007723    ,

             L0007724    , L0007725    , L0007726    , L0007727    , L0007728    ,
L0007729    , L0007730    , L0007731    ,

             L0007732    , L0007733    , L0007734    , L0007735    , L0007736    ,
L0007737    , L0007738    , L0007739    ,

             L0007740    , L0007741    , L0007742    , L0007743    , L0007744    ,
L0007745    , L0007746    , L0007747    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                          ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:23:11

                                    PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS
***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------

             L0007748    , L0007749    , L0007750    , L0007751    , L0007752    ,
L0007753    , L0007754    , L0007755    ,

             L0007322    , L0007323    , L0007324    , L0007325    , L0007326    ,
L0007327    , L0007328    , L0007329    ,

             L0007330    , L0007331    , L0007332    , L0007333    , L0007334    ,
L0007335    , L0007336    , L0007337    ,

             L0007338    , L0007339    , L0007340    , L0007341    , L0007342    ,
L0007343    , L0007344    , L0007345    ,

             L0007346    , L0007347    , L0007348    , L0007349    , L0007350    ,
L0007351    , L0007352    , L0007353    ,

             L0007354    , L0007355    , L0007356    , L0007357    , L0007358    ,
L0007359    , L0007360    , L0007361    ,

             L0007362    , L0007363    , L0007364    , L0007365    , L0007366    ,
L0007367    , L0007368    , L0007369    ,

             L0007370    , L0007371    , L0007372    , L0007373    , L0007374    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
L0007375    , L0007376    , L0007377    ,

             L0007378    , L0007379    , L0007380    , L0007381    , L0007382    ,
L0007383    , L0007384    , L0007385    ,

             L0007386    , L0007387    , L0007388    , L0007389    , L0007390    ,
L0007391    , L0007392    , L0007393    ,

             L0007394    , L0007395    , L0007396    , L0007397    , L0007398    ,
L0007399    , L0007400    , L0007401    ,

             L0007402    , L0007403    , L0007404    , L0007405    , L0007406    ,
L0007407    , L0007408    , L0007409    ,

             L0007410    , L0007411    , L0007412    , L0007413    , L0007414    ,
L0007415    , L0007416    , L0007417    ,

             L0007418    , L0007419    , L0007420    , L0007421    , L0007422    ,
L0007423    , L0007424    , L0007425    ,

             L0007426    , L0007427    , L0007428    , L0007429    , L0007430    ,
L0007431    , L0007432    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:23:11

                                    PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


              2189641.   L0006618    , L0006619    , L0006620    , L0006621    ,
L0006622    , L0006623    , L0006624    ,
 L0006625    ,

             L0006626    , L0006627    , L0006628    , L0006629    , L0006630    ,
L0006631    , L0006632    , L0006633    ,

             L0006634    , L0006635    , L0006636    , L0006637    , L0006638    ,
L0006639    , L0006640    , L0006641    ,

             L0006642    , L0006643    , L0006644    , L0006645    , L0006646    ,
L0006647    , L0006648    , L0006649    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
             L0006650    , L0006651    , L0006652    , L0006653    , L0006654    ,
L0006655    , L0006656    , L0006657    ,

             L0006658    , L0006659    , L0006660    , L0006661    , L0006662    ,
L0006663    , L0006664    , L0006665    ,

             L0006666    , L0006667    , L0006668    , L0006669    , L0006670    ,
L0006671    , L0006672    , L0006673    ,

             L0007433    , L0007434    , L0007435    , L0007436    , L0007437    ,
L0007438    , L0007439    , L0007440    ,

             L0007441    , L0007442    , L0007443    , L0007444    , L0007445    ,
L0007446    , L0007447    , L0007448    ,

             L0007449    , L0007450    , L0007451    , L0007452    , L0007453    ,
L0007454    , L0007455    , L0007456    ,

             L0007457    , L0007458    , L0007459    , L0007460    , L0007461    ,
L0007462    , L0007463    , L0007464    ,

             L0007465    , L0007466    , L0007467    , L0007468    , L0007469    ,
L0007470    , L0007471    , L0007472    ,

             L0007473    , L0007474    , L0007475    , L0007476    , L0007477    ,
L0007478    , L0007479    , L0007480    ,

             L0007481    , L0007482    , L0007483    , L0007484    , L0007485    ,
L0007486    , L0007487    , L0007488    ,

             L0007489    , L0007490    , L0007491    , L0007492    , L0007493    ,
L0007494    , L0007495    , L0007496    ,

             L0007497    , L0007498    , L0007499    , L0007500    , L0007501    ,
L0007502    , L0007503    , L0007504    ,

             L0007505    , L0007506    , L0007507    , L0007508    , L0007509    ,
L0007510    , L0007511    , L0007512    ,

             L0007513    , L0007514    , L0007515    , L0007516    , L0007517    ,
L0007518    , L0007519    , L0007520    ,

             L0007521    , L0007522    , L0007523    , L0007524    , L0007525    ,
L0007526    , L0007527    , L0007528    ,

             L0007529    , L0007530    , L0007531    , L0007532    , L0007533    ,
L0007534    , L0007535    , L0007536    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0007537 , L0007538 , L0007539 , L0007540 , L0007541 , L0007542 , L0007543 , L0007544 ,
		L0007545 , L0007546 , L0007547 , L0007548 , L0007549 , L0006847 , L0006848 , L0006849 ,
		L0006850 , L0006851 , L0006852 , L0006853 , L0006854 , L0006855 , L0006856 , L0006857 ,
		L0006858 , L0006859 , L0006860 , L0006861 , L0006862 , L0006863 , L0006864 , L0006865 ,
		L0006866 , L0006867 , L0006868 , L0006869 , L0006870 , L0006871 , L0006872 , L0006873 ,
		L0006874 , L0006875 , L0006876 , L0006877 , L0006878 , L0006879 , L0006880 , L0006881 ,
		L0006882 , L0006883 , L0006884 , L0006885 , L0006886 , L0006887 , L0006888 , L0006889 ,
		L0006890 , L0006891 , L0006892 , L0006893 , L0006894 , L0006895 , L0006896 , L0006897 ,
		L0006898 , L0006899 , L0006900 , L0006901 , L0006902 , L0006903 , L0006904 , L0006905 ,
		L0006906 , L0006907 , L0006908 , L0006909 , L0006910 , L0006911 , L0006912 , L0006913 ,
		L0006914 , L0006915 , L0006916 , L0006917 , L0006918 , L0006919 , L0006920 , L0006921 ,
		L0006922 , L0006923 , L0006924 , L0006925 , L0006926 , L0006927 , L0006928 , L0006929 ,

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
             L0006930    , L0006931    , L0006932    , L0006933    , L0006934    ,
L0006935    , L0006936    , L0006937    ,

             L0006938    , L0006939    , L0006940    , L0006941    , L0006942    ,
L0006943    , L0006944    , L0006945    ,

             L0006946    , L0006947    , L0006948    , L0006949    , L0006950    ,
L0006951    , L0006952    , L0006953    ,

             L0006954    , L0006955    , L0006956    , L0006957    , L0006958    ,
L0006959    , L0006960    , L0006961    ,

             L0006962    , L0006963    , L0006964    , L0006965    , L0006966    ,
L0006967    , L0006968    , L0006969    ,

             L0006970    , L0006971    , L0006972    , L0006973    , L0006974    ,
L0006975    , L0006976    , L0006977    ,

             L0006978    , L0006979    , L0006980    , L0006981    , L0006982    ,
L0006983    , L0006984    , L0006985    ,

             L0006986    , L0006987    , L0006988    , L0006989    , L0006990    ,
L0006991    , L0006992    , L0006993    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


             L0006994    , L0006995    , L0006996    , L0006997    , L0006998    ,
L0006999    , L0007000    , L0007001    ,

             L0007002    , L0007003    , L0007004    , L0007005    , L0007006    ,
L0007007    , L0007008    , L0007009    ,

             L0007010    , L0007011    , L0007012    , L0007013    , L0007014    ,
L0007015    , L0007016    , L0007017    ,

             L0007018    , L0007019    , L0007020    , L0007021    , L0007022    ,
L0007023    , L0007024    , L0007025    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
             L0007026    , L0007027    , L0007028    , L0007029    , L0007030    ,
L0007031    , L0007032    , L0007033    ,

             L0007034    , L0007035    , L0007036    , L0007037    , L0007038    ,
L0007039    , L0007040    , L0007041    ,

             L0007042    , L0007043    , L0007044    , L0007045    , L0007046    ,
L0007047    , L0007048    , L0007049    ,

             L0007050    , L0007051    , L0007052    , L0007053    , L0007054    ,
L0007055    , L0007056    , L0007057    ,

             L0007058    , L0007059    , L0007060    , L0007061    , L0007062    ,
L0007063    , L0007064    , L0007065    ,

             L0007066    , L0007067    , L0007068    , L0007069    , L0007070    ,
L0007071    , L0007072    , L0007073    ,

             L0007074    , L0007075    , L0007076    , L0007077    , L0007078    ,
L0007079    , L0007080    , L0007081    ,

             L0007082    , L0007083    , L0007084    , L0007085    , L0007086    ,
L0007087    , L0007088    , L0007089    ,

             L0007090    , L0007091    , L0007092    , L0007093    , L0007094    ,
L0007095    , L0007096    , L0007097    ,

             L0007098    , L0007099    , L0007100    , L0007101    , L0007102    ,
L0007103    , L0007104    , L0007105    ,

             L0007106    , L0007107    , L0007108    , L0007109    , L0007110    ,
L0007111    , L0007112    , L0007113    ,

             L0007114    , L0007115    , L0007116    , L0007117    , L0007118    ,
L0007119    , L0007120    , L0007121    ,

             L0007122    , L0007123    , L0007124    , L0007125    , L0007126    ,
L0007127    , L0007128    , L0007129    ,

             L0007130    , L0007131    , L0007132    , L0007133    , L0007134    ,
L0007135    , L0007136    , L0007137    ,

             L0007138    , L0007139    , L0007140    , L0007141    , L0007142    ,
L0007143    , L0007144    , L0007145    ,

             L0007146    , L0007147    , L0007148    , L0007149    , L0007150    ,
L0007151    , L0007152    , L0007153    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
		L0007154 , L0007155 , L0007156 , L0007157 , L0007158 , L0007159 , L0007160 , L0007161 ,
		L0007162 , L0007163 , L0007164 , L0007165 , L0007166 , L0007167 , L0007168 , L0007169 ,
		L0007170 , L0007171 , L0007172 , L0007173 , L0007174 , L0007175 , L0007176 , L0007177 ,
		L0007178 , L0007179 , L0007180 , L0007181 , L0007182 , L0007183 , L0007184 , L0007185 ,
		L0007186 , L0007187 , L0007188 , L0007189 , L0007190 , L0007191 , L0007192 , L0007193 ,
		L0007194 , L0007195 , L0007196 , L0007197 , L0007198 , L0007199 , L0007200 , L0007201 ,
		L0007202 , L0007203 , L0007204 , L0007205 , L0007206 , L0007207 , L0007208 , L0007209 ,
		L0007210 , L0007211 , L0007212 , L0007213 , L0007214 , L0007215 , L0007216 , L0007217 ,
		L0007218 , L0007219 , L0007220 , L0007221 , L0007222 , L0007223 , L0007224 , L0007225 ,
		L0007226 , L0007227 , L0007228 , L0007229 , L0007230 , L0007231 , L0007232 , L0007667 ,
		L0007668 , L0007669 , L0007670 , L0007671 , L0007672 , L0007673 , L0007674 , L0007675 ,
		L0007676 , L0007677 , L0007678 , L0007679 , L0007680 , L0007681 , L0007682 , L0007683 ,

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
             L0007684    , L0007685    , L0007686    , L0007687    , L0007688    ,
L0007689    , L0007690    , L0007691    ,

             L0007692    , L0007693    , L0007694    , L0007695    , L0007696    ,
L0007697    , L0007698    , L0007699    ,

             L0007700    , L0007701    , L0007702    , L0007703    , L0007704    ,
L0007705    , L0007706    , L0007707    ,

             L0007708    , L0007709    , L0007710    , L0007711    , L0007712    ,
L0007713    , L0007714    , L0007715    ,

             L0007716    , L0007717    , L0007718    , L0007719    , L0007720    ,
L0007721    , L0007722    , L0007723    ,

             L0007724    , L0007725    , L0007726    , L0007727    , L0007728    ,
L0007729    , L0007730    , L0007731    ,

             L0007732    , L0007733    , L0007734    , L0007735    , L0007736    ,
L0007737    , L0007738    , L0007739    ,

             L0007740    , L0007741    , L0007742    , L0007743    , L0007744    ,
L0007745    , L0007746    , L0007747    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


             L0007748    , L0007749    , L0007750    , L0007751    , L0007752    ,
L0007753    , L0007754    , L0007755    ,

             L0007322    , L0007323    , L0007324    , L0007325    , L0007326    ,
L0007327    , L0007328    , L0007329    ,

             L0007330    , L0007331    , L0007332    , L0007333    , L0007334    ,
L0007335    , L0007336    , L0007337    ,

             L0007338    , L0007339    , L0007340    , L0007341    , L0007342    ,
L0007343    , L0007344    , L0007345    ,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
             L0007346    , L0007347    , L0007348    , L0007349    , L0007350    ,
L0007351    , L0007352    , L0007353    ,

             L0007354    , L0007355    , L0007356    , L0007357    , L0007358    ,
L0007359    , L0007360    , L0007361    ,

             L0007362    , L0007363    , L0007364    , L0007365    , L0007366    ,
L0007367    , L0007368    , L0007369    ,

             L0007370    , L0007371    , L0007372    , L0007373    , L0007374    ,
L0007375    , L0007376    , L0007377    ,

             L0007378    , L0007379    , L0007380    , L0007381    , L0007382    ,
L0007383    , L0007384    , L0007385    ,

             L0007386    , L0007387    , L0007388    , L0007389    , L0007390    ,
L0007391    , L0007392    , L0007393    ,

             L0007394    , L0007395    , L0007396    , L0007397    , L0007398    ,
L0007399    , L0007400    , L0007401    ,

             L0007402    , L0007403    , L0007404    , L0007405    , L0007406    ,
L0007407    , L0007408    , L0007409    ,

             L0007410    , L0007411    , L0007412    , L0007413    , L0007414    ,
L0007415    , L0007416    , L0007417    ,

             L0007418    , L0007419    , L0007420    , L0007421    , L0007422    ,
L0007423    , L0007424    , L0007425    ,

             L0007426    , L0007427    , L0007428    , L0007429    , L0007430    ,
L0007431    , L0007432    ,
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 485254.0, 3755508.6,     541.1,     541.1,       0.0);         ( 485271.0,
3754588.9,     520.4,     520.4,       0.0);
     ( 484903.9, 3754588.9,     522.9,     522.9,       0.0);         ( 484740.6,
3754586.3,     523.0,     523.0,       0.0);
     ( 484962.7, 3754583.6,     522.2,     522.2,       0.0);         ( 484995.2,
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
3754578.2,     522.1,     522.1,       0.0);
     ( 485061.1, 3754595.7,     522.4,     522.4,       0.0);         ( 485081.6,
3754593.0,     522.0,     522.0,       0.0);
     ( 485193.0, 3754581.9,     521.0,     521.0,       0.0);         ( 484823.6,
3754585.0,     523.3,     523.3,       0.0);
     ( 484884.8, 3754593.0,     523.0,     523.0,       0.0);         ( 484798.7,
3754595.4,     523.6,     523.6,       0.0);
     ( 485166.1, 3754581.9,     521.2,     521.2,       0.0);         ( 485167.3,
3755143.8,     533.9,     533.9,       0.0);
     ( 485005.8, 3755160.8,     535.5,     535.5,       0.0);         ( 484254.1,
3755093.7,     536.2,     623.0,       0.0);
     ( 484513.4, 3755169.9,     537.8,     537.8,       0.0);         ( 484084.6,
3755094.8,     535.3,     626.0,       0.0);
     ( 484819.3, 3755160.8,     537.3,     537.3,       0.0);

 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                            ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                  (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

                NOTE:  METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.



                                         *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

(METERS/SEC)

1.54, 3.09, 5.14, 8.23,
10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: PERRISADJU\PERI_V9_ADJU\PERI_V9.SFC
Met Version: 16216
Profile file: PERRISADJU\PERI_V9_ADJU\PERI_V9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3171 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2010 Year: 2010

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
10	01	01	1	01	-7.9	0.125	-9.000	-9.000	-999.	106.	21.2	0.19	0.61	1.00	1.30	335.	9.1	282.5	5.5
10	01	01	1	02	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	142.	9.1	280.9	5.5
10	01	01	1	03	-3.9	0.088	-9.000	-9.000	-999.	62.	15.1	0.19	0.61	1.00	0.90	324.	9.1	280.4	5.5
10	01	01	1	04	-1.3	0.064	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	294.	9.1	278.8	5.5
10	01	01	1	05	-3.9	0.088	-9.000	-9.000	-999.	62.	15.0	0.19	0.61	1.00	0.90	205.	9.1	278.1	5.5
10	01	01	1	06	-1.3	0.065	-9.000	-9.000	-999.	39.	18.3	0.19	0.61	1.00	0.40	3.	9.1	277.0	5.5
10	01	01	1	07	-8.0	0.125	-9.000	-9.000	-999.	106.	21.0	0.19	0.61	1.00	1.30	99.	9.1	277.0	5.5
10	01	01	1	08	-3.3	0.086	-9.000	-9.000	-999.	61.	16.8	0.19	0.61	0.54	0.90	319.	9.1	278.8	5.5
10	01	01	1	09	20.1	0.128	0.307	0.010	49.	110.	-9.0	0.19	0.61						

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
0.33    0.90  239.    9.1  284.2    5.5
 10 01 01   1 10   56.7  0.087  0.560  0.010  107.   62.     -1.0  0.19   0.61
0.26    0.40  188.    9.1  289.2    5.5
 10 01 01   1 11   81.5  0.323  0.867  0.008  277.  441.    -35.9  0.19   0.61
0.23    2.70  310.    9.1  290.9    5.5
 10 01 01   1 12   97.1  0.281  1.058  0.008  421.  357.    -19.7  0.19   0.61
0.22    2.20  357.    9.1  293.1    5.5
 10 01 01   1 13   92.2  0.279  1.117  0.008  523.  354.    -20.4  0.19   0.61
0.22    2.20  356.    9.1  293.8    5.5
 10 01 01   1 14   77.6  0.275  1.102  0.008  595.  347.    -23.2  0.19   0.61
0.23    2.20   50.    9.1  294.2    5.5
 10 01 01   1 15   54.9  0.230  1.006  0.008  640.  266.    -19.2  0.19   0.61
0.27    1.80   53.    9.1  293.8    5.5
 10 01 01   1 16   12.3  0.206  0.613  0.008  648.  225.    -61.5  0.19   0.61
0.36    1.80   11.    9.1  292.5    5.5
 10 01 01   1 17   -3.6  0.087 -9.000 -9.000 -999.   71.     15.6  0.19   0.61
0.64    0.90  351.    9.1  290.4    5.5
 10 01 01   1 18   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61
1.00    0.90  186.    9.1  287.5    5.5
 10 01 01   1 19   -3.8  0.087 -9.000 -9.000 -999.   62.     15.2  0.19   0.61
1.00    0.90  275.    9.1  285.9    5.5
 10 01 01   1 20   -1.2  0.064 -9.000 -9.000 -999.   39.     18.1  0.19   0.61
1.00    0.40  181.    9.1  285.4    5.5
 10 01 01   1 21   -7.8  0.125 -9.000 -9.000 -999.  106.     21.3  0.19   0.61
1.00    1.30  318.    9.1  284.9    5.5
 10 01 01   1 22   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  196.    9.1  283.1    5.5
 10 01 01   1 23   -3.8  0.088 -9.000 -9.000 -999.   62.     15.1  0.19   0.61
1.00    0.90  330.    9.1  281.4    5.5
 10 01 01   1 24   -7.9  0.125 -9.000 -9.000 -999.  106.     21.2  0.19   0.61
1.00    1.30  332.    9.1  280.9    5.5


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 10 01 01 01    5.5 0 -999.  -99.00   282.6   99.0  -99.00  -99.00
 10 01 01 01    9.1 1  335.    1.30  -999.0   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                            ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:23:11

                                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    *** THE ANNUAL AVERAGE CONCENTRATION    VALUES AVERAGED OVER   5
YEARS FOR SOURCE GROUP: ALL      ***
                                     INCLUDING SOURCE(S):     L0006618    , L0006619
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
 , L0006620    , L0006621    , L0006622    ,
                 L0006623    , L0006624    , L0006625    , L0006626    , L0006627
 , L0006628    , L0006629    , L0006630    ,
                 L0006631    , L0006632    , L0006633    , L0006634    , L0006635
 , L0006636    , L0006637    , L0006638    ,
                 L0006639    , L0006640    , L0006641    , L0006642    , L0006643
 , L0006644    , L0006645    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF OTHER    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
         485254.01    3755508.63        0.00193                       485270.99
3754588.87        0.00384
         484903.88    3754588.87        0.00265                       484740.57
3754586.26        0.00206
         484962.67    3754583.65        0.00280                       484995.17
3754578.23        0.00285
         485061.11    3754595.73        0.00322                       485081.62
3754593.03        0.00325
         485192.97    3754581.93        0.00345                       484823.61
3754584.96        0.00234
         484884.84    3754593.03        0.00262                       484798.72
3754595.39        0.00233
         485166.06    3754581.93        0.00337                       485167.27
3755143.75        0.00703
         485005.78    3755160.81        0.00597                       484254.07
3755093.71        0.00343
         484513.36    3755169.91        0.00245                       484084.62
3755094.85        0.00197
         484819.28    3755160.81        0.00468

 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***       04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***     17:23:11

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                   *** THE SUMMARY OF MAXIMUM ANNUAL RESULTS
AVERAGED OVER   5 YEARS ***
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

```
                                   ** CONC OF OTHER    IN MICROGRAMS/M**3
             **

                         NETWORK
GROUP ID                       AVERAGE CONC                RECEPTOR  (XR, YR,
ZELEV, ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS       0.00703 AT (  485167.27,  3755143.75,
533.91,   533.91,    0.00)  DC
          2ND HIGHEST VALUE IS       0.00597 AT (  485005.78,  3755160.81,
535.48,   535.48,    0.00)  DC
          3RD HIGHEST VALUE IS       0.00468 AT (  484819.28,  3755160.81,
537.33,   537.33,    0.00)  DC
          4TH HIGHEST VALUE IS       0.00384 AT (  485270.99,  3754588.87,
520.42,   520.42,    0.00)  DC
          5TH HIGHEST VALUE IS       0.00345 AT (  485192.97,  3754581.93,
521.04,   521.04,    0.00)  DC
          6TH HIGHEST VALUE IS       0.00343 AT (  484254.07,  3755093.71,
536.24,   623.00,    0.00)  DC
          7TH HIGHEST VALUE IS       0.00337 AT (  485166.06,  3754581.93,
521.19,   521.19,    0.00)  DC
          8TH HIGHEST VALUE IS       0.00325 AT (  485081.62,  3754593.03,
521.98,   521.98,    0.00)  DC
          9TH HIGHEST VALUE IS       0.00322 AT (  485061.11,  3754595.73,
522.41,   522.41,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00285 AT (  484995.17,  3754578.23,
522.06,   522.06,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** C:\LAKES\AERMOD VIEW\12974 FC\12974 FC.ISC
                           ***        04/05/22
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:23:11

                                    PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
```

```
 A Total of         2028 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          978 Calm Hours Identified

 A Total of         1050 Missing Hours Identified (  2.40 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1736       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
      0.50
 ME W187    1736       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
  14010101
 MX W450   17521       CHKDAT: Record Out of Sequence in Meteorological File at:
2 year gap

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

Attachment: Air Quality, Greenhouse Gas, and Health Risk Assessment Evaluation (E-Commerce) for Moreno Valley Trade Center - Revised

URBAN CROSSROADS

urbanxroads.com

April 27, 2022

Mr. John Grace
Hillwood
901 Via Piemonte, Suite 175
Ontario, CA 91764

SUBJECT: MORENO VALLEY TRADE CENTER WAREHOUSE NOISE SUMMARY

Dear Mr. John Grace:

Urban Crossroads, Inc. is pleased to provide the following Noise Summary for the Moreno Valley Trade Center Warehouse development (referred to as "Project") located in the City of Moreno Valley. The purpose of this Noise Summary is to describe the changes in operational noise levels associated with the updated site plan for the Proposed Project as shown on Exhibit A.

EXECUTIVE SUMMARY

On January 10, 2021, Urban Crossroads, Inc. prepared a previous technical Noise Impact Analysis for the proposed Moreno Valley Trade Center Warehouse development (1). At the time the previous noise study was prepared, the proposed Project included the construction of 1,332,380 square feet of warehouse use and a planned 14-foot-high screen wall surrounding the southern loading dock area. The current proposed building is 1,263,271 square feet, for a reduction of 65,582 square feet. Truck access to and from the project site will be restricted to the two driveways on Eucalyptus Avenue.

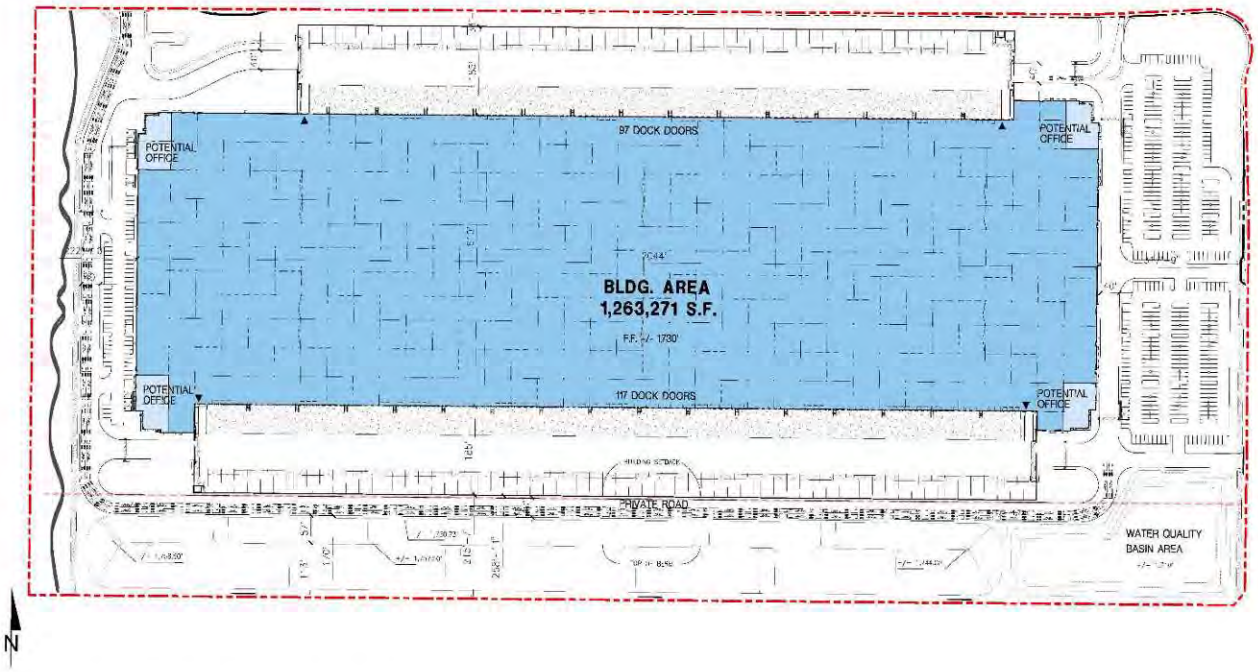
In addition, to reduce the potential Project related noise levels in the residential community to the south, the Proposed Project site plan and noise impact analysis was revised to include a planned berm in addition to the planned 14-foot-high screen wall. The berm was designed to fully screen and block the line of sight of the Project from the homes to the south on Encelia Avenue.

Consistent with the January 10, 2021, Urban Crossroads, Inc. technical Noise Impact Analysis, the proposed Project will satisfy the City of Moreno Valley 65 dBA L_{eq} daytime and 60 dBA L_{eq} nighttime exterior noise level standards. In addition, the analysis shows that the Project will not produce a measurable daytime or nighttime noise increase at the nearby receiver locations or at 200 feet from the property line of the source. In summary,

- The proposed 14' concrete wall reduces the Project operational noise by approximately 30% on Encelia Avenue at the northly end of the neighborhood.
- The addition of the berm reduces the Project operational noise levels by an additional 26%.
- The 14' concrete wall and berm provide a combined Project Operational noise reduction of 56%
- The estimated project noise levels are lower than the ambient noise levels that exist today within the residential neighborhood to south on Encelia Avenue.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

EXHIBIT A: SITE PLAN



SENSITIVE RECEIVER LOCATIONS

To assess the potential for long-term operational and short-term construction noise impacts, the following sensitive receiver locations, as shown on Exhibit B, were identified as representative locations for analysis. To describe the potential off-site Project noise levels, three receiver locations in the vicinity of the Project site were identified.

R1: Location R1 represents the existing noise sensitive residence at 21969 Spruce Avenue, approximately 1,621 feet north of the Project site.

R2: Location R2 represents the existing noise sensitive residence at 13031 Shubert Street, approximately 126 feet south of the Project site.

R3: Location R3 represents the existing noise sensitive residence at 13020 Essen Lane, approximately 118 feet south of the Project site.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Mr. John Grace
Hillwood
April 27, 2022

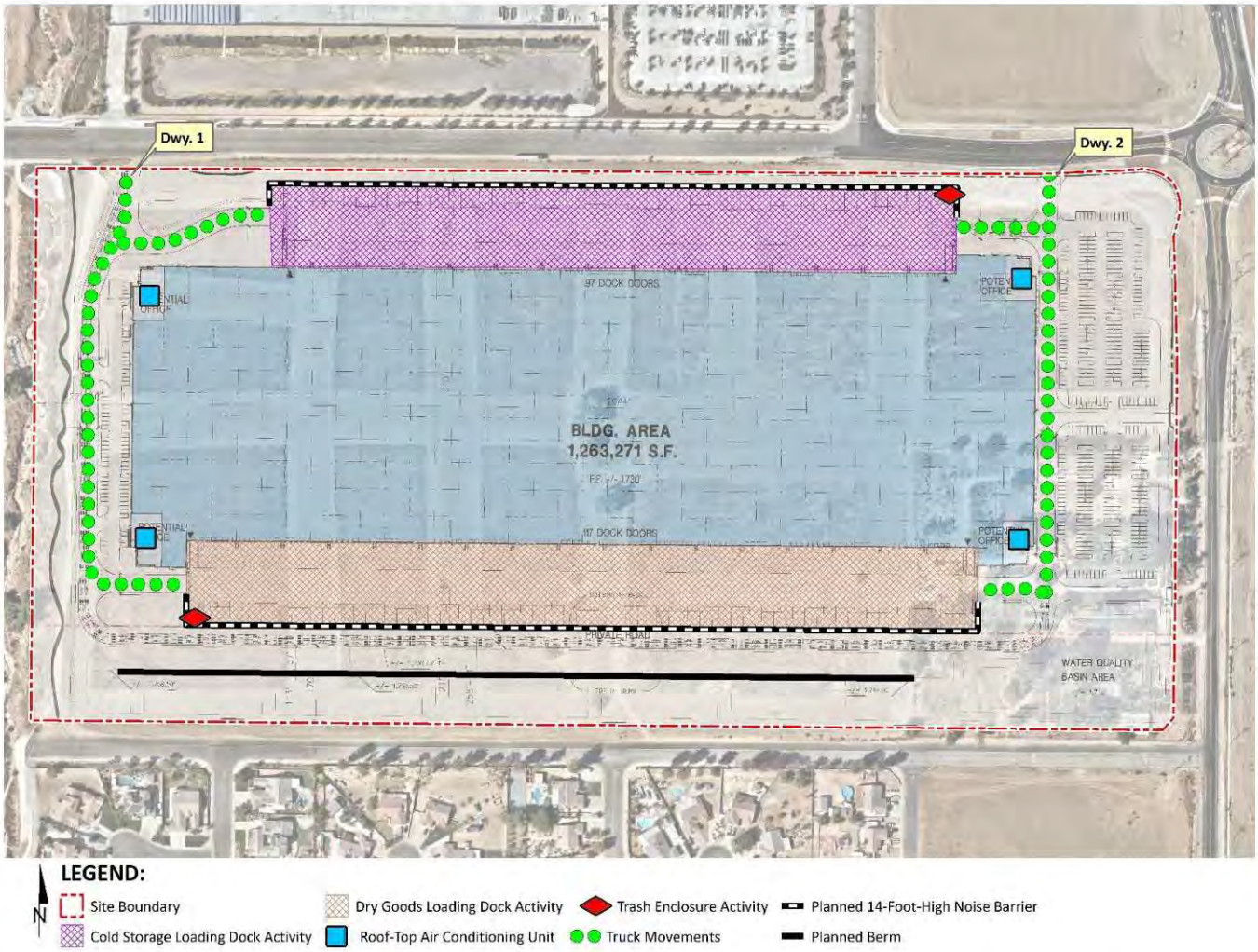
EXHIBIT B: SENSITIVE RECEIVER LOCATIONS

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

OPERATIONAL NOISE ANALYSIS

Using reference noise levels to represent the expected noise sources from the Moreno Valley Trade Center Warehouse site, the operational analysis estimates the Project-related stationary-source noise hourly average L_{eq} levels at nearby sensitive receiver locations. The typical activities associated with the proposed Moreno Valley Trade Center Warehouse are anticipated to include loading dock activity, roof-top, air-conditioning units, parking lot vehicle movements, trash enclosure activity, and truck movements.. Exhibit C identifies the representative noise source locations used to assess the Proposed Project operational noise levels.

EXHIBIT C: OPERATIONAL NOISE SOURCE LOCATIONS



Appendix A includes the detailed noise model inputs including the planned 14-foot-high screen wall used to estimate the Project operational noise levels presented in this section. Consistent with the January 10, 2021, Noise Impact Analysis, the operational noise analysis for the updated site plan shows

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

that the Project will satisfy the City of Moreno Valley stationary-source exterior hourly average L_{eq} noise levels of 65 dBA L_{eq} daytime and 60 dBA L_{eq} nighttime noise level standards at all nearby receiver locations and at 200 feet from the property line of the source. Therefore, the Project-related operational noise level impacts are considered *less than significant*. Table 1 provides a comparison of the daytime operational noise levels disclosed in the previous technical study compared to noise levels anticipated from the updated Project site plan. Table 1 shows that the Proposed Project with the planned berm and planned 14-foot-high screen will reduce the daytime noise levels more than 4 dBA when compared to the previous Noise Impact Analysis.

TABLE 1: DAYTIME OPERATIONAL NOISE LEVEL COMPARISON

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)		Noise Level Reduction (dBA Leq)[4]
	Previous Technical Study[2]	Proposed Project[3]	
R1	44.3	37.6	-6.8
R2	40.1	35.8	-4.3
R3	41.0	35.5	-5.5
at 200'	40.0	35.1	-4.9

[1] See Exhibit B for the receiver locations.
[2] January 10, 2021, Moreno Valley Trade Center Warehouse Noise Impact Analysis prepared by Urban Crossroads.
[3] Proposed Project CadnaA noise model calculations are included in Appendix A. While Receiver R1 does not benefit from the planned berm, the Proposed Project operational noise analysis now includes the ALDI Distribution Center Building that acts a noise barrier resulting in the Proposed Project operational noise level decrease.
[4] Noise level reduction with the planned berm in addition to the planned 14-foot-high screen wall.

Table 2 provides a comparison of the nighttime operational noise levels disclosed in the previous technical study compared to noise levels anticipated from the updated Project site plan. Table 2 shows that the Proposed Project with the planned berm and planned 14-foot-high screen will reduce the nighttime noise levels more than 4 dBA when compared to the previous Noise Impact Analysis.

TABLE 2: NIGHTTIME OPERATIONAL NOISE LEVEL COMPARISON

Receiver Location[1]	Project Operational Noise Levels (dBA Leq)		Noise Level Reduction (dBA Leq)[4]
	Previous Technical Study[2]	Proposed Project[3]	
R1	44.1	37.5	-6.6
R2	39.7	35.6	-4.1
R3	39.8	35.3	-4.5
at 200'	39.3	34.9	-4.4

[1] See Exhibit B for the receiver locations.
[2] January 10, 2021, Moreno Valley Trade Center Warehouse Noise Impact Analysis prepared by Urban Crossroads.
[3] Proposed Project CadnaA noise model calculations are included in Appendix A. While Receiver R1 does not benefit from the planned berm, the Proposed Project operational noise analysis now includes the ALDI Distribution Center Building that acts a noise barrier

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

resulting in the Proposed Project operational noise level decrease.
[4] Noise level reduction with the planned berm in addition to the planned 14-foot-high screen wall.

CONCLUSION

The Proposed Project would not result in any impacts beyond what have previously been disclosed. In fact, the updated site plan now includes a planned berm in addition to the planned 14-foot-high screen wall is expected to further reduce the Project noise levels by an additional 26%. If you have any questions, please contact me directly at (949) 584-3148.

Respectfully submitted,

URBAN CROSSROADS, INC.

Bill Lawson, P.E., INCE
Principal

REFERENCES

1. **Urban Crossroads, Inc.** *Moreno Valley Trade Center Warehouse Noise Impact Analysis.* January 2021.

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

APPENDIX A:

CADNAA OPERATIONAL NOISE MODEL INPUTS

12975 - Moreno Valley Trade Center

CadnaA Noise Prediction Model: 12975-18_Berm&14wall.cna
Date: 31.03.22
Analyst: B. Lawson

Calculation Configuration

Configuration	
Parameter	**Value**
General	
Max. Error (dB)	0.00
Max. Search Radius (#(Unit,LEN))	2000.01
Min. Dist Src to Rcvr	0.00
Partition	
Raster Factor	0.50
Max. Length of Section (#(Unit,LEN))	999.99
Min. Length of Section (#(Unit,LEN))	1.01
Min. Length of Section (%)	0.00
Proj. Line Sources	On
Proj. Area Sources	On
Ref. Time	
Reference Time Day (min)	960.00
Reference Time Night (min)	480.00
Daytime Penalty (dB)	0.00
Recr. Time Penalty (dB)	5.00
Night-time Penalty (dB)	10.00
DTM	
Standard Height (m)	518.16
Model of Terrain	Triangulation
Reflection	
max. Order of Reflection	2
Search Radius Src	100.00
Search Radius Rcvr	100.00
Max. Distance Source - Rcvr	1000.00 1000.00
Min. Distance Rvcr - Reflector	1.00 1.00
Min. Distance Source - Reflector	0.10
Industrial (ISO 9613)	
Lateral Diffraction	some Obj
Obst. within Area Src do not shield	On
Screening	Incl. Ground Att. over Barrier
	Dz with limit (20/25)
Barrier Coefficients C1,2,3	3.0 20.0 0.0
Temperature (#(Unit,TEMP))	10
rel. Humidity (%)	70
Ground Absorption G	0.50
Wind Speed for Dir. (#(Unit,SPEED))	3.0
Roads (RLS-90)	
Strictly acc. to RLS-90	
Railways (FTA/FRA)	
Aircraft (???)	
Strictly acc. to AzB	

Receiver Noise Levels

Name	M.	ID	Level Lr			Limit. Value			Land Use			Height		Coordinates		
			Day	Night	CNEL	Day	Night	CNEL	Type	Auto	Noise Type			X	Y	Z
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)				(ft)		(ft)	(ft)	(ft)
RECEIVERS		R1	37.5	37.5	44.2	65.0	60.0	0.0				5.00	r	6285795.43	2286852.14	1782.32
RECEIVERS		R2	35.8	35.6	42.3	65.0	60.0	0.0				5.00	r	6285832.80	2283837.85	1717.00
RECEIVERS		R3	35.5	35.3	41.9	65.0	60.0	0.0				5.00	r	6284622.63	2283845.08	1725.22
RECEIVERS		R4	30.6	30.2	36.9	65.0	60.0	0.0				5.00	r	6284093.59	2283838.98	1719.70
RECEIVERS		@ 200	35.1	34.9	41.6	65.0	60.0	0.0				5.00	r	6285084.05	2283772.87	1723.30

Point Source(s)

Name	M.	ID	Result. PWL			Lw / Li			Operating Time			Height		Coordinates		
			Day	Evening	Night	Type	Value	norm.	Day	Special	Night			X	Y	Z
			(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	(ft)		(ft)	(ft)	(ft)
POINTSOURCE		AC01	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6284268.74	2284384.45	1784.41
POINTSOURCE		AC02	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6286196.78	2284381.22	1784.41
POINTSOURCE		AC03	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6286203.13	2284957.52	1784.41
POINTSOURCE		AC04	88.9	88.9	88.9	Lw	88.9		585.00	0.00	252.00	5.00	g	6284277.43	2284919.36	1784.41
POINTSOURCE		TRASH01	89.0	89.0	89.0	Lw	89		150.00	0.00	90.00	5.00	r	6286043.53	2285142.44	1737.00
POINTSOURCE		TRASH02	89.0	89.0	89.0	Lw	89		150.00	0.00	90.00	5.00	r	6284376.90	2284207.47	1734.51

Line Source(s)

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Name	M.	ID	Result. PWL			Result. PWL'			Lw / Li			Operating Time			Moving Pt. Src				Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	Number			Speed		
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)	Day	Evening	Night	(mph)	(ft)	
LINESOURCE		DWY01	93.2	93.2	93.2	67.8	67.8	67.8	Lw	93.2									8	r
LINESOURCE		DWY02	93.2	93.2	93.2	68.7	68.7	68.7	Lw	93.2									8	r
LINESOURCE		DWY03	93.2	93.2	93.2	75.3	75.3	75.3	Lw	93.2									8	r
LINESOURCE		DWY04	93.2	93.2	93.2	72.8	72.8	72.8	Lw	93.2									8	r
LINESOURCE		DWY05	93.2	93.2	93.2	71.7	71.7	71.7	Lw	93.2									8	r

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
LINESOURCE	8.00	r			6284226.77	2285209.73	1760.89	1752.89
					6284221.80	2285079.10	1749.67	1741.67
					6284154.78	2284956.23	1743.62	1735.62
					6284139.88	2284868.11	1739.99	1731.99
					6284143.61	2284314.56	1738.21	1730.21
					6284169.67	2284282.29	1737.97	1729.97
					6284360.64	2284281.19	1737.87	1729.87
LINESOURCE	8.00	r			6286263.43	2285193.31	1745.00	1737.00
					6286257.26	2284259.95	1731.96	1723.96
LINESOURCE	8.00	r			6286262.61	2285069.17	1742.16	1734.16
					6286058.79	2285070.28	1740.00	1732.00
LINESOURCE	8.00	r			6284198.04	2285035.53	1747.24	1739.24
					6284316.13	2285034.42	1745.06	1737.06
					6284460.10	2285095.23	1750.13	1742.13
					6284543.40	2285099.02	1744.57	1736.57
LINESOURCE	8.00	r			6286563.32	2284262.43	1722.31	1714.31
					6286257.27	2284261.23	1732.01	1724.01
					6286217.54	2284272.36	1734.97	1726.97
					6286102.45	2284269.91	1736.87	1728.87

Area Source(s)

Name	M.	ID	Result. PWL			Result. PWL''			Lw / Li			Operating Time			Height	
			Day	Evening	Night	Day	Evening	Night	Type	Value	norm.	Day	Special	Night	(ft)	
			(dBA)	(dBA)	(dBA)	(dBA)	(dBA)	(dBA)			dB(A)	(min)	(min)	(min)		
AREASOURCE		COLD01	111.5	111.5	111.5	67.4	67.4	67.4	Lw	111.5					8	r
AREASOURCE		DRY01	103.4	103.4	103.4	58.6	58.6	58.6	Lw	103.4					8	r

Name	Height				Coordinates			
	Begin		End		x	y	z	Ground
	(ft)		(ft)		(ft)	(ft)	(ft)	(ft)
AREASOURCE	8.00	r			6286060.28	2285157.60	1740.11	1732.11
					6286057.16	2284974.35	1740.00	1732.00
					6284548.29	2284984.49	1740.00	1732.00
					6284540.49	2285166.96	1748.50	1740.50
AREASOURCE	8.00	r			6284360.11	2284375.94	1739.92	1731.92
					6286107.08	2284361.72	1738.88	1730.87
					6286105.76	2284177.85	1737.60	1729.60
					6284357.62	2284192.00	1737.73	1729.73
					6284359.57	2284317.04	1739.94	1731.94

Barrier(s)

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
			left	right		horz.	vert.	Begin		End	x	y	z	Ground
					(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
BARRIEREXISTING		WALL01						3.00	r		6285880.91	2283837.79	1715.00	1712.00
											6285880.20	2283871.69	1714.70	1711.70
											6285741.67	2283871.69	1716.00	1713.00
											6285541.41	2283872.77	1717.00	1714.00
											6285360.89	2283873.84	1720.00	1717.00
											6285333.97	2283847.28	1718.43	1715.43
											6285333.97	2283725.26	1714.00	1711.00
											6285334.29	2283705.84	1714.00	1711.00
											6285336.33	2283686.53	1712.41	1709.40
											6285340.06	2283667.47	1712.00	1709.00
											6285345.46	2283648.82	1712.01	1709.01
											6285380.91	2283670.53	1713.00	1710.00
BARRIEREXISTING		WALL02						3.00	r		6285222.72	2283847.64	1721.00	1718.00
											6285222.72	2283877.07	1720.59	1717.59
											6285000.20	2283878.87	1719.83	1716.83
											6284874.59	2283880.66	1722.00	1719.00
											6284640.24	2283883.17	1723.79	1720.79
											6284640.24	2283871.69	1724.00	1721.00
BARRIEREXISTING		WALL03						6.00	r		6284387.35	2283749.31	1720.76	1714.76
											6284405.17	2283749.67	1720.67	1714.67
											6284406.24	2283859.49	1725.81	1719.81
											6284391.89	2283872.77	1726.62	1720.62

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Name	M.	ID	Absorption		Z-Ext.	Cantilever		Height			Coordinates			
			left	right		horz.	vert.	Begin		End	x	y	z	Ground
					(ft)	(ft)	(ft)	(ft)		(ft)	(ft)	(ft)	(ft)	(ft)
											6284026.54	2283875.28	1728.63	1722.63
BARRIEREXISTING		WALL04						6.00	r		6284640.24	2283871.69	1727.00	1721.00
											6284512.98	2283872.18	1726.75	1720.75
											6284513.54	2283854.42	1726.94	1720.94
BARRIERTEMP		0						14.00	r		6284358.68	2284260.40	1743.06	1729.06
											6284357.62	2284192.00	1743.73	1729.73
											6286105.76	2284177.85	1743.60	1729.60
											6286106.23	2284243.91	1743.00	1729.00

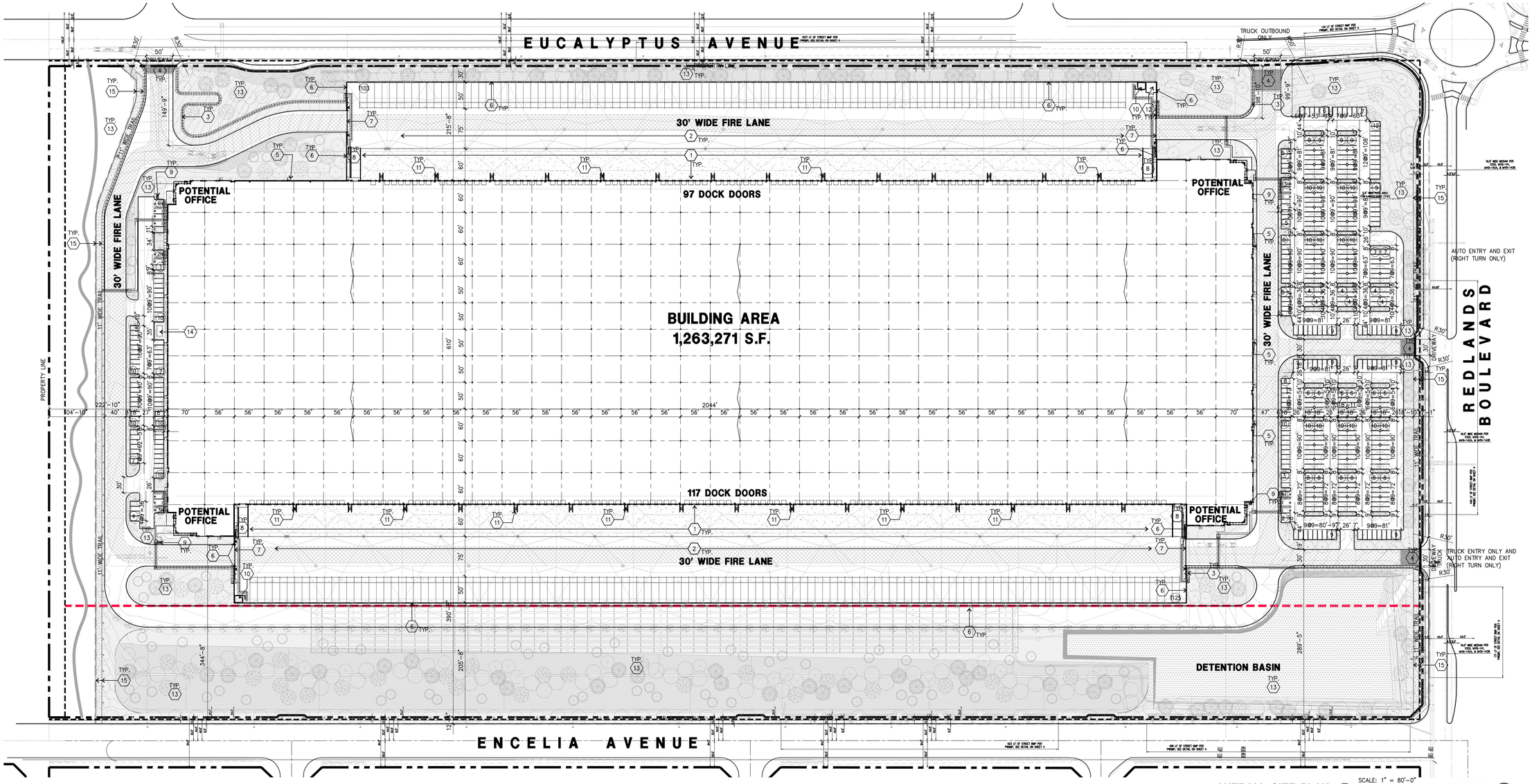
Building(s)

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING		BUILDING00001	x	0		46.00	r	6284254.07	2284981.05	1779.41	1733.41
								6286061.16	2284972.36	1779.41	1732.00
								6286059.92	2285010.84	1779.41	1732.00
								6286223.75	2285012.08	1779.41	1732.44
								6286221.27	2284968.64	1779.41	1732.00
								6286237.40	2284968.64	1779.41	1732.00
								6286232.44	2284367.93	1779.41	1731.96
								6286216.30	2284369.17	1779.41	1732.00
								6286220.02	2284325.73	1779.41	1730.66
								6286107.08	2284325.73	1779.41	1729.36
								6286107.08	2284361.72	1779.41	1730.87
								6284360.11	2284375.94	1779.41	1731.92
								6284359.57	2284317.04	1779.41	1731.94
								6284249.10	2284322.01	1779.41	1731.87
								6284247.86	2284361.72	1779.41	1732.00
								6284235.45	2284361.72	1779.41	1731.95
								6284241.66	2284938.85	1779.41	1732.06
								6284255.31	2284938.85	1779.41	1732.00
BUILDING		BUILDING00002	x	0		25.00	r	6284096.52	2283834.72	1739.61	1714.61
								6284177.27	2283807.81	1739.61	1715.30
								6284162.92	2283772.28	1739.61	1715.96
								6284157.24	2283774.57	1739.61	1715.92
								6284149.29	2283754.91	1739.61	1715.20
								6284127.49	2283763.72	1739.61	1715.00
								6284120.41	2283746.20	1739.61	1714.00
								6284059.31	2283770.88	1739.61	1715.00
								6284071.81	2283801.83	1739.61	1715.43
								6284082.25	2283797.61	1739.61	1715.11
BUILDING		BUILDING00003	x	0		25.00	r	6284231.82	2283828.26	1740.00	1715.00
								6284275.97	2283827.19	1740.00	1715.48
								6284275.60	2283812.14	1740.00	1715.41
								6284289.96	2283811.79	1740.00	1715.69
								6284288.95	2283770.12	1740.00	1715.00
								6284242.57	2283771.25	1740.00	1715.00
								6284242.76	2283779.07	1740.00	1715.00
								6284221.39	2283779.59	1740.00	1715.11
								6284222.35	2283818.84	1740.00	1715.62
								6284232.17	2283818.60	1740.00	1715.34
BUILDING		BUILDING00004	x	0		15.00	r	6284328.36	2283828.26	1730.10	1715.10
								6284386.86	2283828.62	1730.10	1714.11
								6284387.40	2283741.42	1730.10	1714.46
								6284359.96	2283741.25	1730.10	1715.00
								6284359.99	2283735.32	1730.10	1715.00
								6284316.55	2283735.05	1730.10	1714.21
								6284316.40	2283758.61	1730.10	1714.86
								6284327.31	2283758.68	1730.10	1715.00
BUILDING		BUILDING00005	x	0		15.00	r	6284508.17	2283854.46	1735.71	1720.71
								6284590.71	2283853.74	1735.71	1720.59
								6284590.21	2283795.56	1735.71	1720.00
								6284523.21	2283796.14	1735.71	1720.00
								6284523.14	2283788.07	1735.71	1720.00
								6284499.90	2283788.27	1735.71	1719.00
								6284500.25	2283828.68	1735.71	1720.03
								6284532.22	2283828.40	1735.71	1720.68
								6284532.27	2283834.36	1735.71	1720.77
								6284507.80	2283834.58	1735.71	1720.83
BUILDING		BUILDING00006	x	0		15.00	r	6284527.19	2283760.07	1732.76	1717.76
								6284591.79	2283759.72	1732.76	1718.54
								6284591.58	2283721.67	1732.76	1717.96
								6284581.38	2283721.73	1732.76	1718.01
								6284581.15	2283680.40	1732.76	1717.39
								6284494.51	2283680.88	1732.76	1714.80
								6284494.61	2283698.72	1732.76	1716.18

Attachment: Warehouse Noise Summary for Moreno Valley Trade Center - Revised Project Evaluation (6209 : Moreno Valley Trade Center/Park)

Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
								6284498.84	2283698.70	1732.76	1716.19
								6284499.05	2283737.83	1732.76	1717.00
								6284526.44	2283737.68	1732.76	1717.12
BUILDING		BUILDING00007	x	0		15.00	r	6284690.84	2283719.52	1728.15	1713.15
								6284741.80	2283706.24	1728.15	1714.00
								6284745.09	2283718.86	1728.15	1714.00
								6284768.78	2283712.69	1728.15	1713.53
								6284751.73	2283647.24	1728.15	1713.18
								6284676.42	2283666.87	1728.15	1714.02
BUILDING		BUILDING00008	x	0		15.00	r	6284782.36	2283820.73	1728.49	1713.49
								6284845.52	2283819.65	1728.49	1714.00
								6284844.45	2283751.10	1728.49	1713.70
								6284811.43	2283751.82	1728.49	1714.00
								6284811.76	2283767.17	1728.49	1714.00
								6284803.54	2283767.35	1728.49	1714.00
								6284803.39	2283760.82	1728.49	1714.00
								6284781.27	2283761.30	1728.49	1714.00
BUILDING		BUILDING00009	x	0		15.00	r	6284893.97	2283804.22	1729.00	1714.00
								6284944.22	2283790.94	1729.00	1714.00
								6284931.90	2283744.31	1729.00	1714.00
								6284903.65	2283751.78	1729.00	1714.00
								6284901.62	2283744.09	1729.00	1714.00
								6284867.61	2283753.07	1729.00	1713.29
								6284874.05	2283777.42	1729.00	1714.00
								6284886.08	2283774.24	1729.00	1714.00
BUILDING		BUILDING00010	x	0		15.00	r	6284923.40	2283708.75	1728.81	1713.81
								6284948.88	2283709.83	1728.81	1714.00
								6284949.42	2283697.23	1728.81	1714.00
								6284990.77	2283698.98	1728.81	1714.00
								6284993.02	2283645.71	1728.81	1713.96
								6284925.51	2283642.86	1728.81	1713.00
BUILDING		BUILDING00011	x	0		15.00	r	6285164.93	2283847.64	1732.33	1717.33
								6285226.30	2283847.64	1732.33	1718.00
								6285226.30	2283817.86	1732.33	1718.00
								6285237.07	2283817.86	1732.33	1718.00
								6285237.07	2283784.48	1732.33	1717.98
								6285208.36	2283784.48	1732.33	1718.00
								6285208.36	2283794.53	1732.33	1718.00
								6285163.86	2283794.53	1732.33	1717.97
BUILDING		BUILDING00012	x	0		15.00	r	6285180.01	2283749.67	1731.98	1716.98
								6285235.28	2283749.31	1731.98	1716.19
								6285235.15	2283729.58	1731.98	1716.10
								6285223.79	2283729.65	1731.98	1716.31
								6285223.61	2283700.87	1731.98	1715.97
								6285179.67	2283701.16	1731.98	1716.00
BUILDING		BUILDING00013	x	0		15.00	r	6285397.85	2283748.59	1725.00	1710.00
								6285428.00	2283700.14	1725.00	1710.00
								6285437.63	2283706.13	1725.00	1710.00
								6285451.21	2283684.31	1725.00	1709.63
								6285394.35	2283648.93	1725.00	1710.00
								6285350.03	2283720.16	1725.00	1710.92
BUILDING		BUILDING00014	x	0		15.00	r	6285443.07	2283794.17	1725.04	1710.04
								6285488.65	2283814.98	1725.04	1710.00
								6285514.29	2283758.84	1725.04	1710.00
								6285489.80	2283747.65	1725.04	1710.00
								6285493.77	2283738.94	1725.04	1710.00
								6285470.65	2283728.39	1725.04	1710.00
BUILDING		BUILDING00015	x	0		15.00	r	6285571.56	2283819.29	1726.66	1711.66
								6285611.75	2283810.68	1726.66	1711.31
								6285609.39	2283799.67	1726.66	1711.07
								6285618.09	2283797.81	1726.66	1711.00
								6285608.11	2283751.24	1726.66	1711.00
								6285579.41	2283757.39	1726.66	1711.00
								6285577.58	2283748.81	1726.66	1711.00
								6285544.59	2283755.88	1726.66	1710.68
								6285550.18	2283781.98	1726.66	1711.19
								6285561.87	2283779.48	1726.66	1711.07
BUILDING		BUILDING00016	x	0		15.00	r	6285625.03	2283731.00	1725.73	1710.73
								6285667.02	2283740.69	1725.73	1711.09
								6285671.96	2283719.28	1725.73	1711.02
								6285688.61	2283723.12	1725.73	1711.16
								6285694.89	2283695.89	1725.73	1711.62
								6285651.25	2283685.82	1725.73	1711.00
								6285654.10	2283673.44	1725.73	1711.00
								6285629.81	2283667.84	1725.73	1710.36
								6285622.51	2283699.45	1725.73	1710.77
								6285633.28	2283701.93	1725.73	1711.25

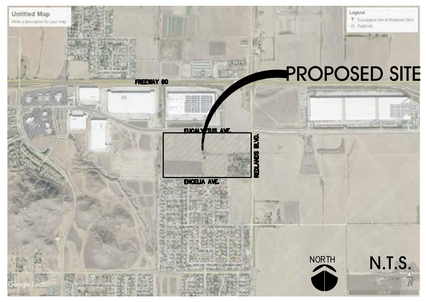
Name	M.	ID	RB	Residents	Absorption	Height		Coordinates			
						Begin		x	y	z	Ground
						(ft)		(ft)	(ft)	(ft)	(ft)
BUILDING		BUILDING00017	x	0		15.00	r	6285837.13	2283837.24	1727.00	1712.00
								6285894.20	2283837.95	1727.00	1711.81
								6285894.57	2283808.18	1727.00	1711.57
								6285904.60	2283808.31	1727.00	1711.30
								6285905.00	2283776.59	1727.00	1711.00
								6285879.13	2283776.27	1727.00	1711.67
								6285878.98	2283788.14	1727.00	1711.75
								6285837.15	2283787.61	1727.00	1711.64
BUILDING		BUILDING00018	x	0		15.00	r	6285857.95	2283741.77	1725.32	1710.32
								6285905.32	2283742.85	1725.32	1709.35
								6285905.92	2283716.67	1725.32	1709.18
								6285891.33	2283716.34	1725.32	1709.55
								6285891.71	2283699.79	1725.32	1709.00
								6285884.51	2283699.63	1725.32	1709.12
								6285884.72	2283690.44	1725.32	1708.22
								6285856.89	2283689.81	1725.32	1709.00
BUILDING		BUILDING00019	x	0		45.00	r	6284244.61	2286303.59	1810.10	1765.10
								6285596.93	2286289.85	1810.10	1761.01
								6285599.68	2285630.18	1810.10	1761.10
								6285454.00	2285638.42	1810.10	1761.97
								6285454.00	2285687.90	1810.10	1763.00
								6284283.09	2285693.40	1810.10	1764.00
								6284283.09	2286201.89	1810.10	1767.04
								6284247.36	2286207.39	1810.10	1764.77



OVERALL SITE PLAN A
scale: 1" = 80'-0"

SCALE: 1" = 80'-0"
0 80' 160' 240'

vicinity map



Existing legal descriptions

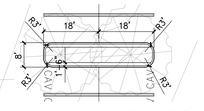
LOTS 1–8 IN BLOCK 54 IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN ON MAP BY NO. 1 OF THE BEAR VALLEY ALESSANDRO DEVELOPMENT COMPANY RECORDED IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

tabulation

SITE AREA		
Gross Area		
In s.f.	3,486,325	s.f.
In acres	80.04	
Net Area		
In s.f.	3,167,134	s.f.
In acres	72.71	ac
BUILDING AREA		
Office	20,000	s.f.
Warehouse	1,243,271	s.f.
Total	1,263,271	s.f.
COVERAGE	39.9%	
AUTO PARKING REQUIRED		
Office: 1/250 s.f.	80	stalls
Whse: 1st 20K @ 1/1,000 s.f.	20	stalls
2nd 20K @ 1/2,000 s.f.	10	stalls
above 40K @ 1/4,000 s.f.	301	stalls
TOTAL	411	stalls
AUTO PARKING PROVIDED		
Standard (9' x 18')	394	stalls
ADA Van (12' x 18')	4	stalls
ADA std. (9' x 18')	8	stalls
EV ADA Van (12' x 18')	1	stalls
EV ADA Std (9' x 18')	2	stalls
EV std (9' x 18')	47	stalls
Ambulatory (11' x 18')	2	stalls
CAV std (9' x 18')	63	stalls
Total	521	stalls
TRAILER PARKING REQUIRED		
1 per dock door	214	stalls
TRAILER PARKING PROVIDED		
Trailer (14' x 50')	228	stalls
MAXIMUM FLOOR AREA RATIO		
FAR - to be verified		
ZONING ORDINACE FOR CITY		
Existing - Residential agriculture 2 dwellings (RA2)		
Proposed - Industrial (I)		
SETBACK		
Building	Landscape	
Front /Street- 20'	10'	
Interior side - 3'		
Rear - 3'		
Note: when any Industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.		

site plan general notes

1. THE SOILS REPORT IS TO BE PART OF THESE CONTRACT DOCUMENTS
2. IF SOILS ARE EXPANSIVE IN NATURE, USE STEEL REINFORCING FOR ALL SITE CONCRETE
3. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE WALL, FACE OF CONCRETE CURB OR GRID LINE U.N.O.
4. SEE "C" PLANS FOR ALL CONCRETE CURBS, GUTTERS AND SWALES.
5. THE ENTIRE PROJECT SHALL BE PERMANENTLY MAINTAINED WITH AN AUTOMATIC IRRIGATION SYSTEM. PRIOR TO INSTALLATION & AT LEAST 60 DAYS BEFORE BLDG. COMPLETION.
6. SEE "C" DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR SHALL VERIFY ACTUAL UTILITY LOCATIONS.
7. PROVIDE POSITIVE DRAINAGE AWAY FROM BLDG. SEE "C" DRAWINGS.
8. CONTRACTOR TO REFER TO "C" DRAWINGS FOR ALL HORIZONTAL CONTROL DIMENSIONS.
9. SITE PLANS ARE FOR GUIDANCE AND STARTING LAYOUT POINTS. SEE "C"DRAWINGS FOR FINISH GRADE ELEVATIONS.
10. CONCRETE SIDEWALKS TO BE A MINIMUM OF 4" THICK W/ TOOLED JOINTS AT 6' O.C. EXPANSION/CONSTRUCTION JOINTS SHALL BE A MAXIMUM 12' EA. WAY W/ 1:20 MAX. SLOPE. EXPANSION JOINTS TO HAVE COMPRESSIVE EXPANSION FILLER MATERIAL OF 1/4". SEE "L" DRAWINGS FOR FINISH.
11. PAINT CURBS AND PROVIDE SIGNS TO INFORM OF FIRE LANES AS REQUIRED BY FIRE DEPARTMENT.
12. CONSTRUCTION DOCUMENTS PERTAINING TO THE LANDSCAPE AND IRRIGATION OF THE ENTIRE PROJECT SITE SHALL BE SUBMITTED TO THE PLANNING DIVISION AND APPROVED BY PUBLIC FACILITIES DEVELOPMENT PRIOR TO ISSUANCE OF BUILDING PERMITS.
13. PRIOR TO FINAL CITY INSPECTION, THE LANDSCAPE ARCHITECT SHALL SUBMIT A CERTIFICATE OF COMPLETION TO PLANNING DIVISION.
14. ALL LANDSCAPE AND IRRIGATION DESIGNS SHALL MEET CURRENT CITY STANDARDS AS LISTED IN GUIDELINES OR AS OBTAINED FROM PLANNING DIVISION.
15. LANDSCAPED AREAS SHALL BE DELINEATED WITH A MINIMUM SIX INCHES (6") HIGH CURB
16. APPROVED CONCEPTUAL LANDSCAPE PLAN PRIOR TO GRADING PERMIT
17. ALL ROOF DRAINS SHALL BE DIRECTED TO A LANDSCAPE AREA.
17. PEDESTRIAN WALKWAYS ACROSS DRIVE AISLES SHALL BE CONSTRUCTED OF A DECORATIVE PAVING.



FINGER PLANTING, TYP. B
scale: 1" = 20'-0"

SCALE: 1" = 20'-0"
0 20' 40' 60'

site legend

- LANDSCAPED AREA
- AC. PAVING
- CONCRETE PAVING
- STANDARD PARKING STALL 9' X 18'
- HANDICAP PARKING STALL, 9' X 18' W/ 2' O.H.
- STANDARD TRAILER STALL 14' X 50'
- PROPOSED R.W P.L.
- EXISTING P.L.
- ADA PATH OF TRAVEL

project information

Owner / Applicant
BRIXTON CAPITAL
120 S. SIERRA AVENUE
SOLANA BEACH, CA. 92075
TEL: (858) 683–7100
CONTACT: BOB EMRI
BEMRI@BRIXTONCAPITAL.COM

Civil Engineer
THIENES ENGINEERING
14349 FIRESTONE BLVD.
LA MIRADA, CA. 90638
TEL: (714) 521–4811
CONTACT: ARISTOTLE CORONEL
ARIS@THIENESENG.COM

Architect
HPA, INC.
18831 BARDEEN AVE. SUITE #100
IRVINE, CA 92612
TEL: (949) 862–2110
CONTACT: JAIME CRUZ
JAIME@HPARCHS.COM

Existing Zoning
RA2 (RESIDENTAIL AGRICULTURE 2 DWELLINGS)

Proposed Zoning
I (INDUSTRIAL)

Assessors Parcel Number
488–340–002 THRU 012

site plan keynotes

1. 6" THICK MINIMUM, REINFORCED CONCRETE TRUCK APRON, W/ #3 @ 18" O.C.E.W. 3500 PSI W. CONSTRUCTION AND/OR EXPANSION JOINTS A MAXIMUM OF 18'–0" O.C. EXPANSION JOINTS TO BE A MIN. OF 1–1/2" DEEP AND A MAXIMUM ULTIMATE WIDTH OF 1/4". VERIFY WITH SOILS ENGINEER. PROVIDE HEAVY BROOM FINISH. ALL JOINTS TO BE CLEANED AN FILLED W/ ASPHALTIC CAULKING.
2. ASPHALT CONCRETE (AC) PAVING PER SOILS ENGINEER RECOMMENDATION AS APPROVED BY THE CITY.
3. CONCRETE WALKWAY
4. DRIVEWAY APRONS TO BE CONSTRUCTED PER CITY STANDARD MV51–112C–0. PROVIDE DECORATIVE PAVING (STAMPED CONCRETE W/ LIGHT BROOM FINISH) AT ALL DRIVE LOCATIONS.
5. 5'–6"X5'–6"X4" THICK CONCRETE EXTERIOR LANDING PAD TYP. AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREAS. FINISH TO BE MEDIUM BROOM FINISH PROVIDE WALK TO PUBLIC WAY OR DRIVE WAY AS REQ. BY CITY INSPECTOR.
6. 14' HIGH CONCRETE TILT–UP SCREEN WALL PER SEPARATE PERMIT
7. 8'H METAL AUTOMATIC SLIDING GATE.
8. CONCRETE RAMP
9. BIKE RACK, "U" SHAPED. EACH RACK HOLDS 2 BIKES. 16 RACKS PROVIDED
10. TRASH ENCLOSURE TO BE TWO BIN AND FULLY COVERED PER CITY STANDARD.
11. CONCRETE STAIRS
12. PUMP ROOM
13. LANDSCAPE. SEE CONCEPTUAL LANDSCAPE PLAN.
14. APPROXIMATE LOCATION OF TRANSFORMER
15. TRAIL FENCING ON BOTH SIDES OF TRAIL PER CITY STANDARDS

utility information

TELEPHONE:
VERIZON
150 SO. JUANITA ST.
HEMET, CA. 92543
PHONE: (951) 658–7305
CONTACT: PHIL BRILLINGER

ELECTRIC
MORENO VALLEY UTILITIES
14177 FREDERICK ST.
MORENO VALLEY, CA 92552
PHONE: (951) 413–3480
CONTACT: MICHELLE PIERCE

GAS
THE GAS COMPANY
25200 TRUMBLE ROAD SC 8058
ROMOLAND, CA 92380
PHONE: (951) 335–3902
CONTACT: DAVE MULLIGAN

WATER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD
PERRIS, CA. 92571
PHONE: (951) 928 – 3777
CONTACT: NEW BUSINESS

SEWER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD
PERRIS, CA. 92571
PHONE: (951) 928–3777
CONTACT: NEW BUSINESS

CABLE – TV
TIME WARNER
1500 AUTO CENTER DR.
ONTARIO, CA. 91761
PHONE: (951) 975–3380
(951) 390–4777
CONTACT: MARK DAUENHAUER

HPA architecture
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY
901 Via Piemonte, Suite 175
Ontario, CA 91764
tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER
EUCALYPTUS AVE. AND REDLANDS BLVD.
Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: overall site plan

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

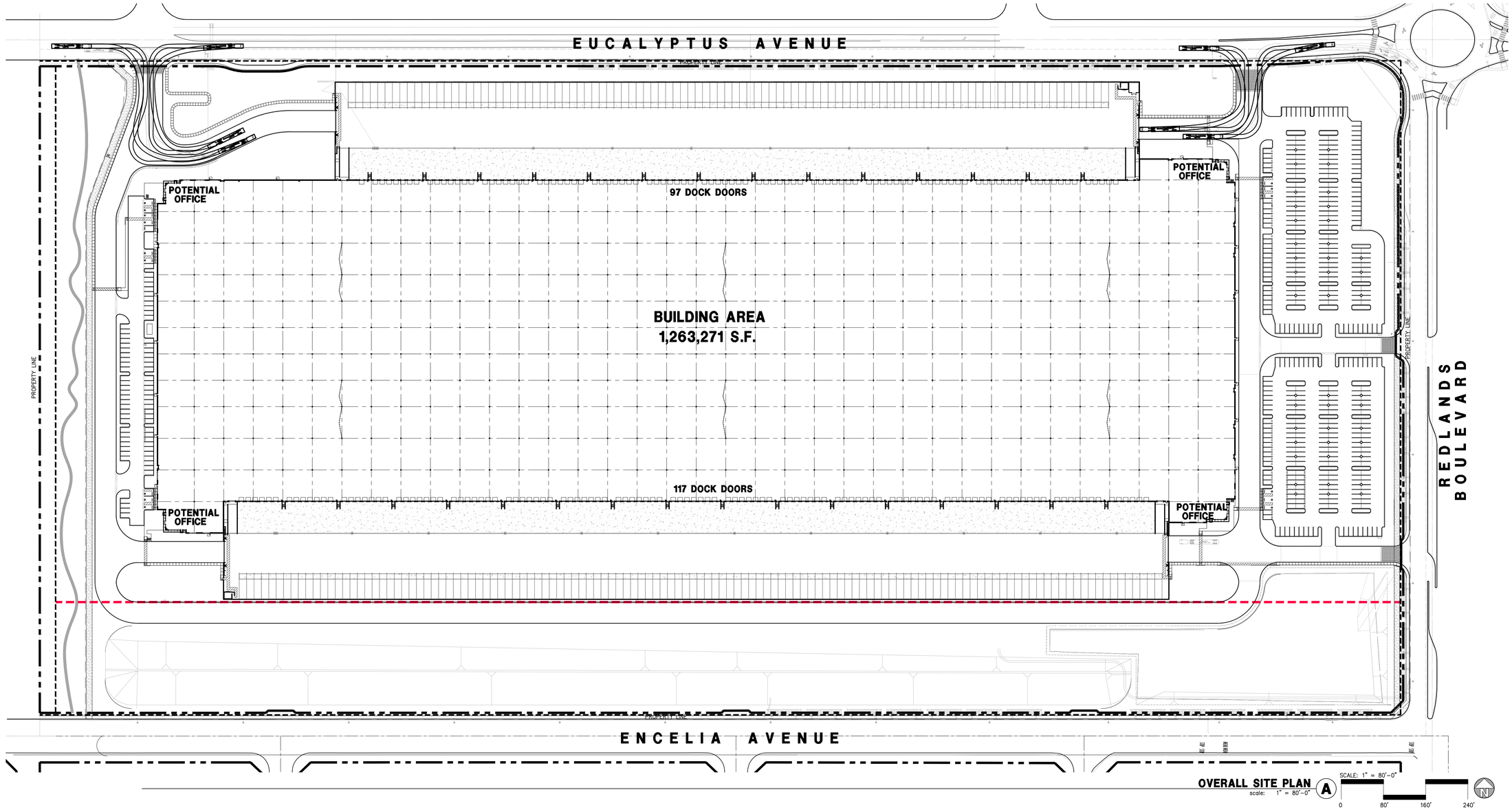
Sheet:

DAB A1.1

OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center(Park))



OVERALL SITE PLAN (A)
scale: 1" = 80'-0"

SCALE: 1" = 80'-0"
0 80' 160' 240'

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY
TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: truck turn plan

Project Number:	19137
Drawn by:	JC
Date:	10/03/19

Revision:

PEN19-0193

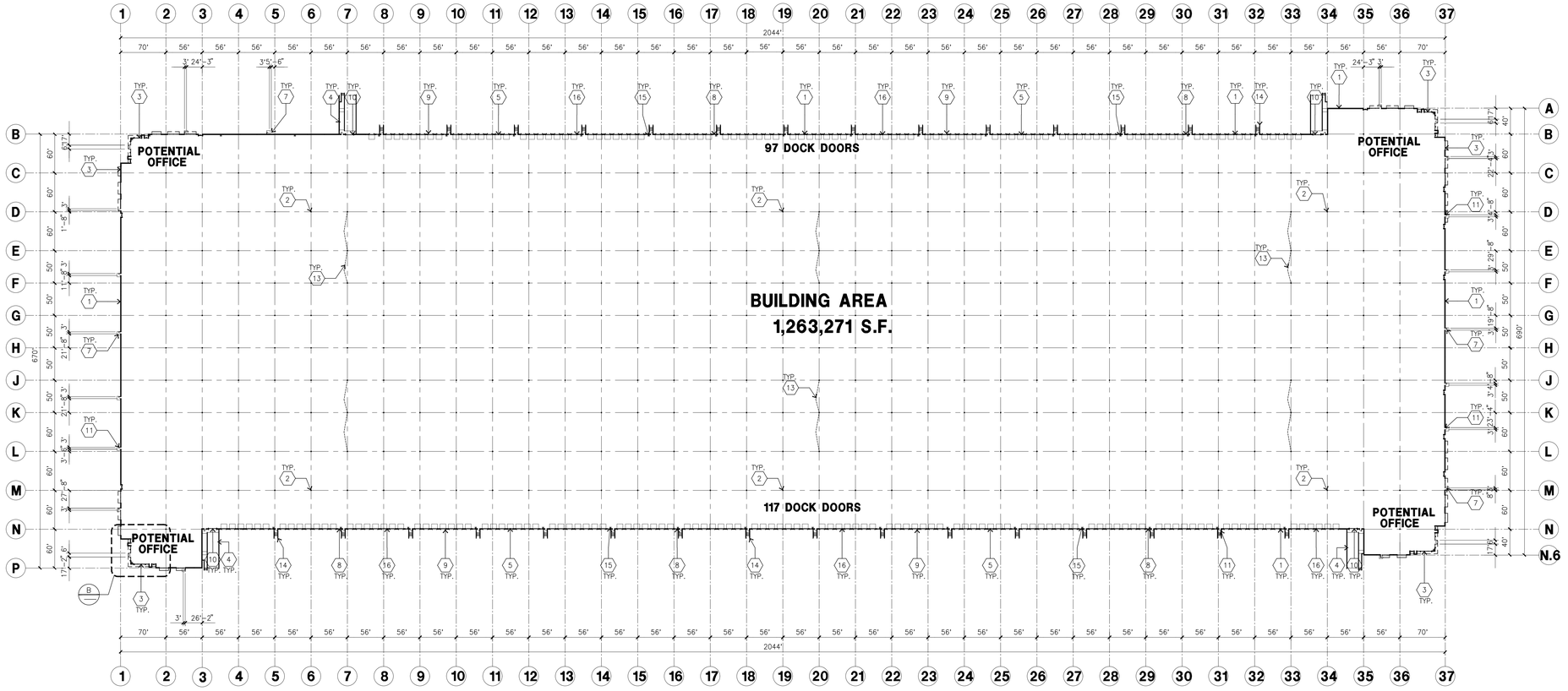
Sheet:

DAB A1.1T

OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)



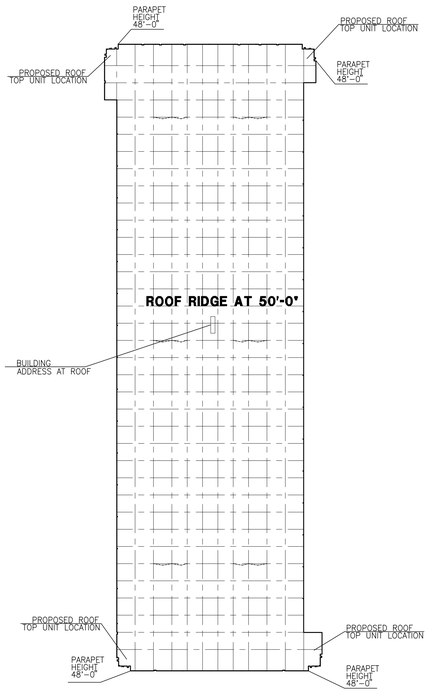
OVERALL FLOOR PLAN A

scale: 1" = 80'-0"

SCALE: 1/8" = 1'-0"

0 8' 16' 24'

TRUE NORTH



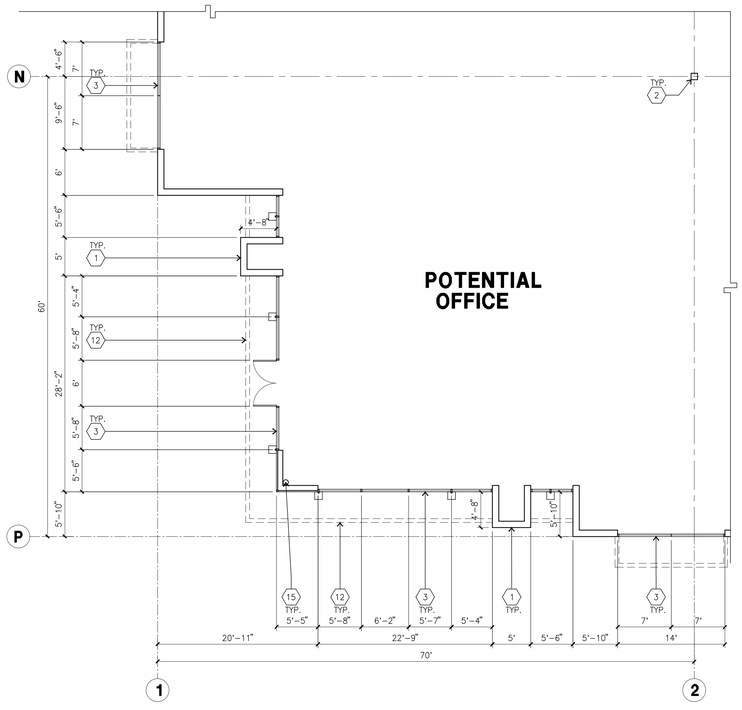
OVERALL ROOF PLAN C

scale: 1"=200'-0"

SCALE: 1"=200'-0"

0 200' 400' 600'

TRUE NORTH



ENLARGED FLOOR PLAN B

scale: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

0 8' 16' 24'

TRUE NORTH

KEYNOTES - FLOOR PLAN

1. CONCRETE TILT-UP PANEL.
2. STRUCTURAL STEEL COLUMN.
3. TYPICAL STOREFRONT SYSTEM WITH GLAZING. SEE OFFICE BLOW-UP AND ELEVATIONS FOR SIZE, COLOR AND LOCATIONS.
4. CONCRETE RAMP W/ 42"HIGH CONC TILT-UP GUARD WALL OR BUILDING WALL ON BOTH SIDE OF RAMP.
5. 9'-0" X 10' TRUCK DOOR, SECTIONAL O'H., STANDARD GRADE.
6. EXTERIOR CONCRETE STAIR
7. 5'-6"X5'-6"X4" THICK CONCRETE EXTERIOR LANDING PAD TYPICAL AT ALL EXTERIOR MAN DOORS TO LANDSCAPED AREA. FINISH TO BE MEDIUM BLOOM FINISH. SLOPE TO BE 1/4" : 12" MAX. PROVIDE WALK TO HARD SURFACE PER CITY REQUIREMENTS.
8. LOUVERED OPENING FOR VENTILATION.
9. DOCK DOOR BUMPER.
10. 12' X 14' DRIVE THRU. SECTIONAL OH., STANDARD GRADE. DESIGNED TO RESIST WIND 110 MPH., EXPOSURE "C".
11. 3'X7' HOLLOW METAL EXTERIOR MAN DOOR. DESIGNED TO RESIST WIN 110 MPH., EXPOSURE "C".
12. SOFFIT LINE ABOVE
13. BRACE FRAME.
14. CONC. FILLED GUARD POST. 6" DIA. U.N.O.. 42"H.
15. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS,
16. Z GUARD

GENERAL NOTES - FLOOR PLAN

A. THIS BUILDING IS DESIGNED FOR HIGH PILE STORAGE WITH FIRE ACCESS MAN DOORS AT 100' MAXIMUM O.C. A SEPARATE PERMIT WILL BE REQUIRED FOR ANY RACKING/CONVEYER SYSTEMS.

B. FIRE HOSE LOCATIONS SHALL BE APPROVED PER FIRE DEPARTMENT.

C. THE BUILDING FLOOR SLAB IS SLOPED, SEE "C" DRAWINGS FOR FINISH SURFACE ELEVATIONS.

D. NOT USED

E. WAREHOUSE INTERIOR CONCRETE WALLS ARE PAINTED WHITE. COLUMNS ARE TO RECEIVE PRIMER ONLY. ALL GYP. BD. WALLS IN WAREHOUSE TO RECEIVE 1 COAT OF WHITE TO COVER.

F. SLOPE POUR STRIP 1/2" TO EXTERIOR AT ALL MANDOOR EXITS.

G. ALL DIMENSIONS ARE TO THE FACE OF CONCRETE PANEL WALL, GRIDLINE, OR FACE OF STUD U.N.O.

H. SEE CIVIL DRAWINGS FOR POINT OF CONNECTIONS TO OFF-SITE UTILITIES. CONTRACTOR TO VERIFY ACTUAL UTILITY LOCATIONS. PLUMBING/ELECTRICAL COORDINATION.

I. FOR DOOR TYPES AND SIZES. NOTE: ALL DOORS PER DOOR SCHEDULE ARE FINISH OPENINGS.

J. CONTRACTOR TO PROTECT AND KEEP THE FLOOR SLAB CLEAN. ALL EQUIPMENT TO BE DIAPERED INCLUDING CARS AND TRUCKS.

K. ALL EXIT MAN DOORS IN WAREHOUSE TO HAVE ILLUMINATED EXIT SIGN. HARDWARE.

L. HIGHLY FLAMMABLE AND COMBUSTIBLE MATERIAL SHALL NOT BE USED OR STORED IN THIS BUILDING.

M. EACH EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT". THE MOUNTING HEIGHT FOR SUCH SIGNAGE SHALL BE 60" FROM FINISH FLOOR LEVEL TO THE CENTER OF THE SIGN.

N. NON-ACCESSIBLE DOOR. PROVIDE WARNING SIGN LOCATED IN THE INTERIOR SIDE PER CBC 1133B.1.1.1

O. ALL ROOF MOUNTED MATERIALS SHALL BE FULLY SCREENED FROM PUBLIC VIEW,

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

LICENSED ARCHITECT YONG H. NAM C-29451 3-31-23 RENEWAL DATE STATE OF CALIFORNIA

Owner:

HILLWOOD A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: OVERALL FLOOR PLAN

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

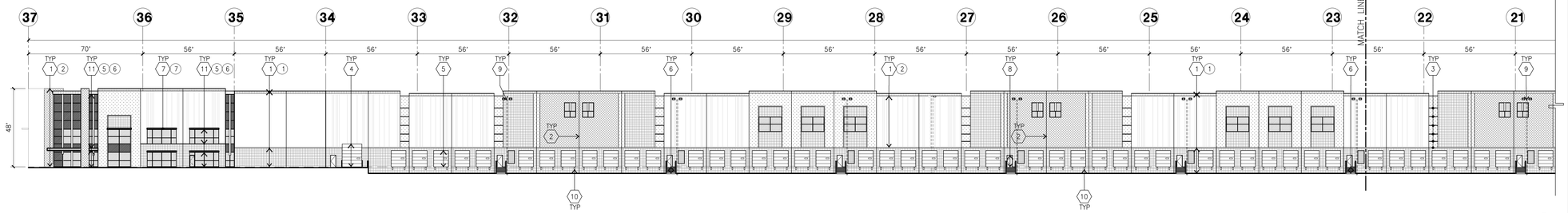
Sheet:

DAB-A2.1

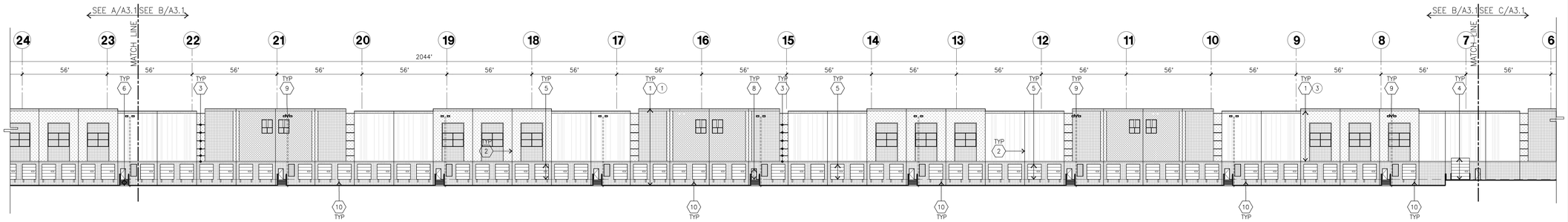
OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

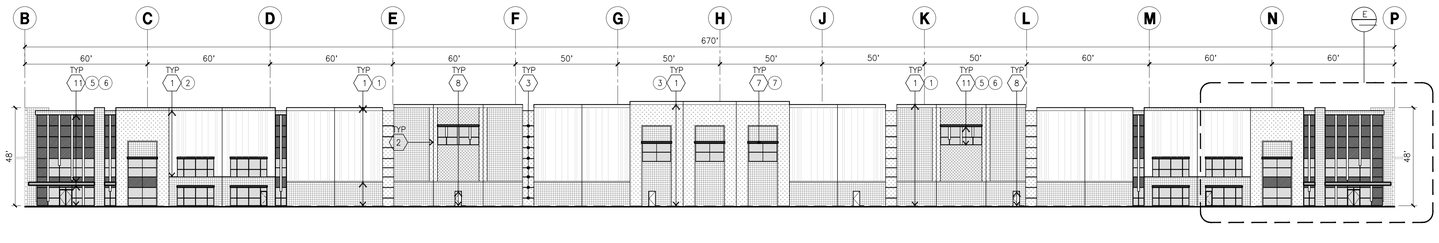
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center(Park)



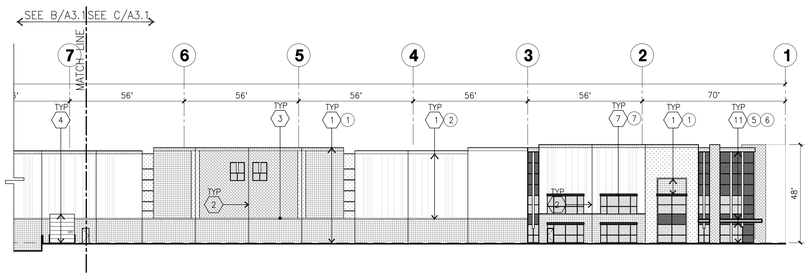
NORTH ELEVATION (A)
scale: 1"=30'-0



NORTH ELEVATION (CONT.) (B)
scale: 1"=30'-0



WEST ELEVATION (D)
scale: 1"=30'-0



NORTH ELEVATION (CONT.) (C)
scale: 1"=30'-0

KEYNOTES - ELEVATIONS

1. CONCRETE TILT-UP PANEL(PAINTED). FINISH GRADE VARIES. SEE "C" DRAWINGS. WATERPROOF ALL WALLS WHERE GRADE IS HIGHER AND EXPOSED TO THE WEATHER ONE SIDE. WATERPROOFING TO BE PROTECTED WITH PROTECTION BOARD AND A MIN. OF 6" OF GRAVEL. PROVIDE TRENCH DRAIN AT BOTTOM AND DAYLIGHT TO CURB OR TAKE TO STORM DRAIN. NOT REQUIRED AT DOCK HIGH CONDITION OR AT RAMP WALLS.
2. PANEL JOINT.
3. PANEL REVEAL. ALL REVEALS TO HAVE A MAX. OF 3/8" CHAMFER. REVEAL COLOR TO MATCH ADJACENT BUILDING FIELD COLOR. U.N.O.
4. OVERHEAD DOOR @ DRIVE THRU. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
5. OVERHEAD DOOR @ DOCK HIGH. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
6. CONCRETE STAIR, LANDING AND GUARDRAIL W/ METAL PIPE HANDRAIL. PROVIDE NON SKID NOSING TO MEET ADA REQUIREMENTS. PROVIDE CONTRASTING COLORED 3" WIDE WARNING STRIPE INTEGRAL TO CONCRETE AT TOP LANDING AND BOTTOM TREAD PER ADA REQUIREMENTS.
7. CANOPY
8. HOLLOW METAL DOORS. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER STRIPING ALL AROUND DOOR. PROVIDE FOR RAIN DIVERTER ABOVE DOOR.
9. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS
10. DOCK BUMPER
11. ALUMINUM STOREFRONT FRAMING WITH TEMPERED GLAZING AT ALL DOORS, SIDELITES ADJACENT TO DOORS AND GLAZING WITH BOTTOMS LESS THAN 18" ABOVE FINISH FLOOR ELEVATION.
12. ILLUMINATED BUILDING ADDRESS PER FIRE DEPT. REQUIREMENTS. 24"H. X 2" THICK HIGH DENSITY FOAM "HELVATIC BOLD" W/ 1/16" CAST ALUMINUM FACES EPOXY TO WALL. COLOR TO BE SELECTED BY ARCHITECT.

GENERAL NOTES - ELEVATIONS

A. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS UNLESS NOTED OTHERWISE.
B. ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.
C. T.O.P. EL.= TOP OF PARAPET ELEVATION.
D. F.F. = FINISH FLOOR ELEVATION.
E. STOREFRONT CONSTRUCTION: GLASS, METAL ATTACHMENTS AND LINTELS SHALL BE DESIGNED TO RESIST 90 MPH, EXPOSURE "C" WINDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
F. CONTRACTOR SHALL FULLY PAINT ONE CONCRETE PANEL W/ SELECTED COLORS. ARCHITECT AND OWNER SHALL APPROVE PRIOR TO PAINTING REMAINDER OF BUILDING.
G. BACK SIDE OF PARAPETS TO HAVE SMOOTH FINISH AND BE PAINTED WITH ELASTOMERIC PAINT.
H. FOR SPANDREL GLAZING, ALLOW SPACE BEHIND SPANDREL TO BREATH.
J. USE ADHESIVE BACK WOOD STRIPS FOR ALL REVEAL FORMS.
K. THE FIRST COAT OF PAINT TO BE ROLLED-ON AND THE SECOND COAT TO BE SPRAYED-ON

COLOR SCHED. - ELEVATIONS

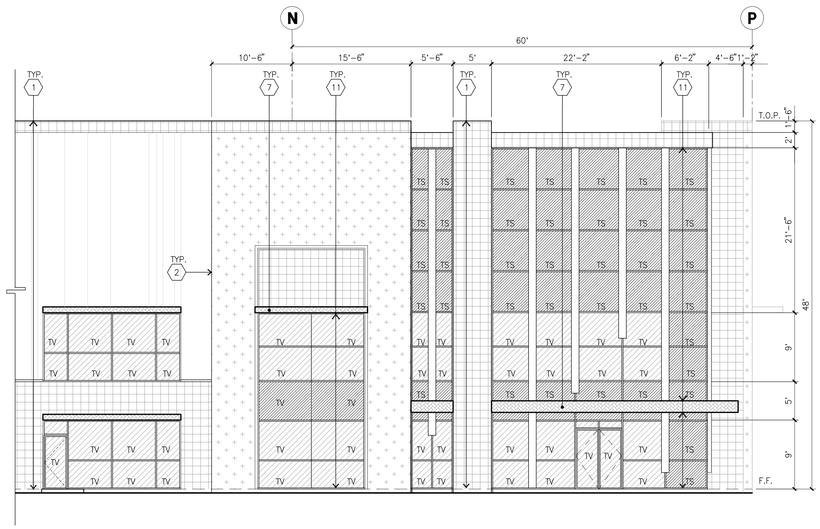
1	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7531 CANVAS TAN
2	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
3	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7545 INTELLECTUAL GRAY
4	CONCRETE TILT-UP PANEL	PAINT BRAND	SHERWIN WILLIAMS SW 7546 ANONYMOUS
5	MULLIONS	PAINT BRAND	CLEAR ANODIZED
6	GLAZING	COLOR	BLUE REFLECTIVE GLAZING
7	CANOPY	PAINT BRAND	SHERWIN WILLIAMS ACRYLIC LATEX SYSTEM HIGH GLOSS/HIGH PERFORMANCE SW 7075 WEB GRAY

GLAZING LEGEND

TS TEMPERED SPANDREL GLASS
TV TEMPERED VISION GLASS

PAINT AND MATERIAL LEGEND

1 2 3 4 7



ENLARGED WEST ELEVATION @ POTENTIAL OFFICE AREA (E)
scale: 1/8" = 1'-0"

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

LICENSED ARCHITECT
YONG S. NAM
C-29451
3-31-23
RENEWAL DATE
STATE OF CALIFORNIA

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: Elevations

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

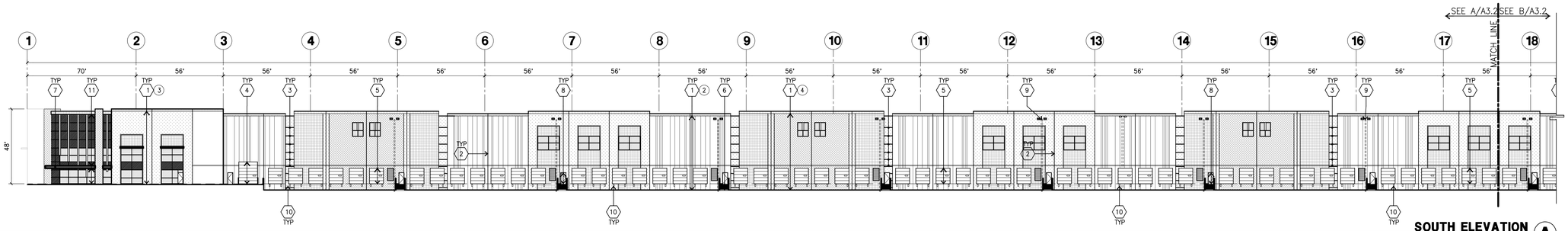
Sheet:

DAB-A3.1

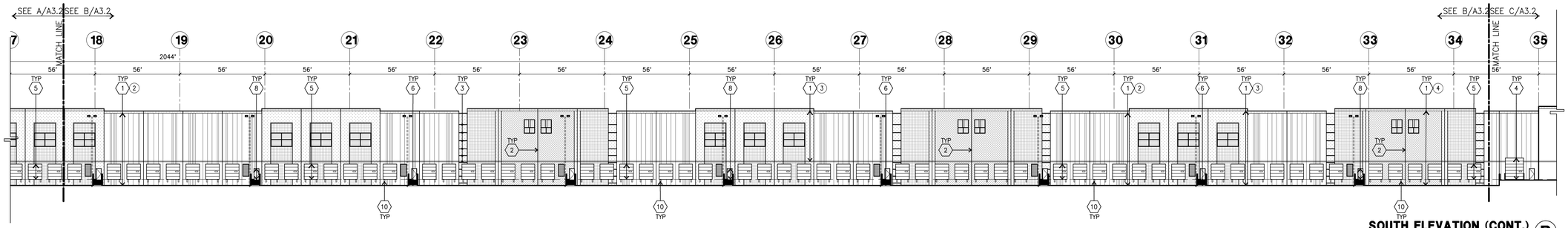
OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

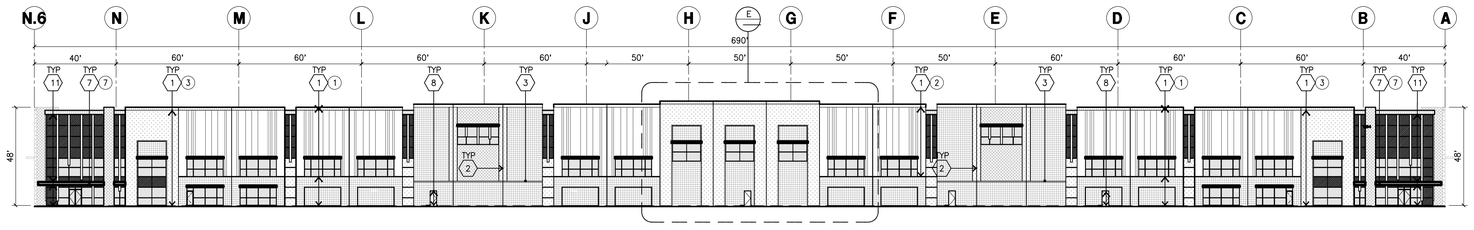
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center(Park)



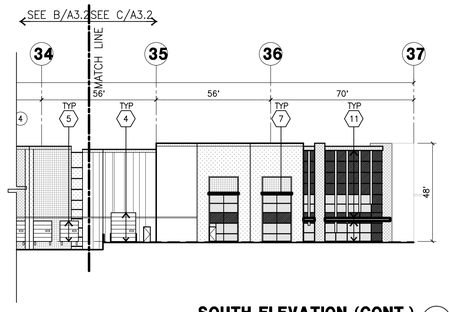
SOUTH ELEVATION (A)
scale: 1"=30'-0



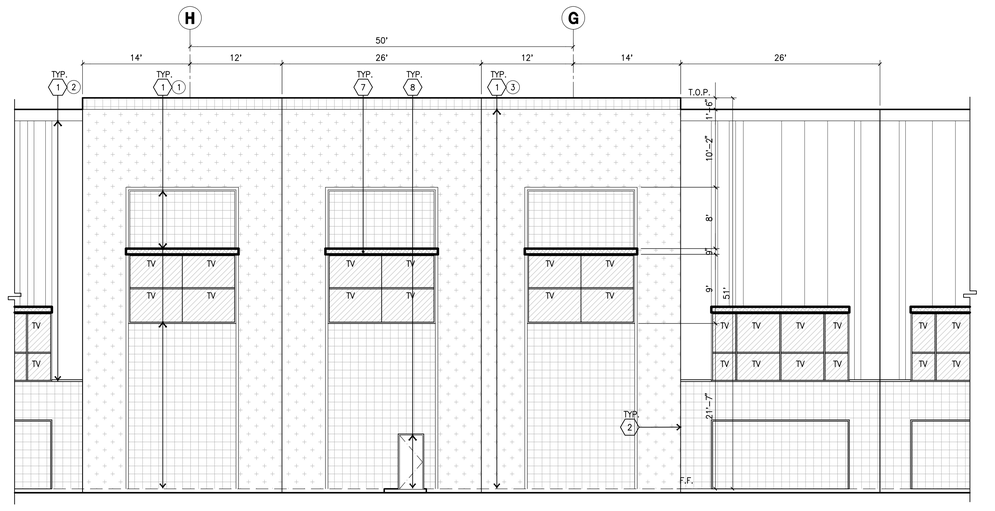
SOUTH ELEVATION (CONT.) (B)
scale: 1"=30'-0"



EAST ELEVATION (D)
scale: 1"=30'-0



SOUTH ELEVATION (CONT.) (C)
scale: 1"=30'-0



ENLARGED EAST ELEVATION @ POTENTIAL OFFICE AREA (E)
scale: 1/8" = 1'-0"

KEYNOTES - ELEVATIONS

1. CONCRETE TILT-UP PANEL(PAINTED). FINISH GRADE VARIES. SEE "C" DRAWINGS. WATERPROOF ALL WALLS WHERE GRADE IS HIGHER AND EXPOSED TO THE WEATHER ONE SIDE. WATERPROOFING TO BE PROTECTED WITH PROTECTION BOARD AND A MIN. OF 6" OF GRAVEL. PROVIDE TRENCH DRAIN AT BOTTOM AND DAYLIGHT TO CURB OR TAKE TO STORM DRAIN. NOT REQUIRED AT DOCK HIGH CONDITION OR AT RAMP WALLS.
2. PANEL JOINT.
3. PANEL REVEAL. ALL REVEALS TO HAVE A MAX. OF 3/8" CHAMFER. REVEAL COLOR TO MATCH ADJACENT BUILDING FIELD COLOR. U.N.O.
4. OVERHEAD DOOR @ DRIVE THRU. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
5. OVERHEAD DOOR @ DOCK HIGH. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER-STRIPPING PROTECTION ALL AROUND.
6. CONCRETE STAIR, LANDING AND GUARDRAIL W/ METAL PIPE HANDRAIL. PROVIDE NON SKID NOSING TO MEET ADA REQUIREMENTS. PROVIDE CONTRASTING COLORED 3" WIDE WARNING STRIPE INTEGRAL TO CONCRETE AT TOP LANDING AND BOTTOM TREAD PER ADA REQUIREMENTS.
7. CANOPY
8. HOLLOW METAL DOORS. SEE DOOR SCHEDULE. PROVIDE COMPLETE WEATHER STRIPING ALL AROUND DOOR. PROVIDE FOR RAIN DIVERTER ABOVE DOOR.
9. INTERIOR ROOF DRAIN WITH OVERFLOW SCUPPERS
10. DOCK BUMPER
11. ALUMINUM STOREFRONT FRAMING WITH TEMPERED GLAZING AT ALL DOORS, SIDELITES ADJACENT TO DOORS AND GLAZING WITH BOTTOMS LESS THAN 18" ABOVE FINISH FLOOR ELEVATION.
12. ILLUMINATED BUILDING ADDRESS PER FIRE DEPT. REQUIREMENTS. 24"Ht. X 2" THICK HIGH DENSITY FOAM "HELVATIC BOLD" W/ 1/16" CAST ALUMINUM FACES EPOXY TO WALL. COLOR TO BE SELECTED BY ARCHITECT.

GENERAL NOTES - ELEVATIONS

A. ALL PAINT COLOR CHANGES TO OCCUR AT INSIDE CORNERS UNLESS NOTED OTHERWISE.
B. ALL PAINT FINISHES ARE TO BE FLAT UNLESS NOTED OTHERWISE.
C. T.O.P. EL.= TOP OF PARAPET ELEVATION.
D. F.F. = FINISH FLOOR ELEVATION.
E. STOREFRONT CONSTRUCTION: GLASS, METAL ATTACHMENTS AND LINTELS SHALL BE DESIGNED TO RESIST 90 MPH. EXPOSURE "C" WINDS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PRIOR TO INSTALLATION.
F. CONTRACTOR SHALL FULLY PAINT ONE CONCRETE PANEL W/ SELECTED COLORS, ARCHITECT AND OWNER SHALL APPROVE PRIOR TO PAINTING REMAINDER OF BUILDING.
G. BACK SIDE OF PARAPETS TO HAVE SMOOTH FINISH AND BE PAINTED WITH ELASTOMERIC PAINT.
H. FOR SPANDREL GLAZING, ALLOW SPACE BEHIND SPANDREL TO BREATH.
J. USE ADHESIVE BACK WOOD STRIPS FOR ALL REVEAL FORMS.
K. THE FIRST COAT OF PAINT TO BE ROLLED-ON AND THE SECOND COAT TO BE SPRAYED-ON

COLOR SCHED. - ELEVATIONS

1	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7531 CANVAS TAN
2	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
3	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7545 INTELLECTUAL GRAY
4	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7546 ANONYMOUS
5	MULLIONS PAINT BRAND	CLEAR ANODIZED
6	GLAZING COLOR	BLUE REFLECTIVE GLAZING
7	CANOPY PAINT BRAND	SHERWIN WILLIAMS ACRYLIC LATEX SYSTEM HIGH GLOSS/HIGH PERFORMANCE SW 7075 WEB GRAY

GLAZING LEGEND

TS TEMPERED SPANDREL GLASS
TV TEMPERED VISION GLASS

PAINT AND MATERIAL LEGEND

1 2 3 4 7

HPA architecture
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

LICENSED ARCHITECT KONG T. NAM C-29451 3-31-23 RENEWAL DATE STATE OF CALIFORNIA

Owner:

HILLWOOD A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: Elevations

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

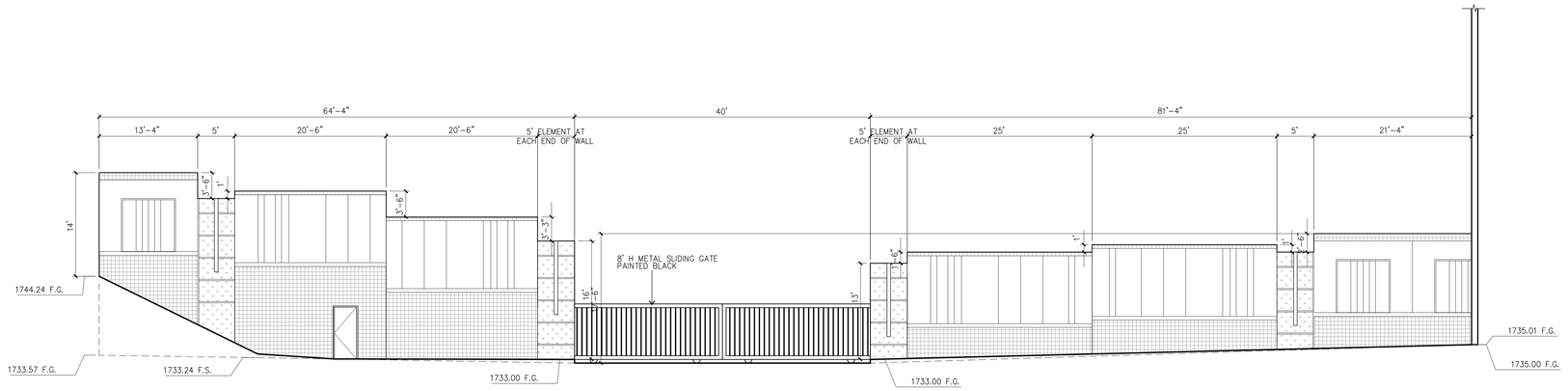
Sheet:

DAB-A3.2

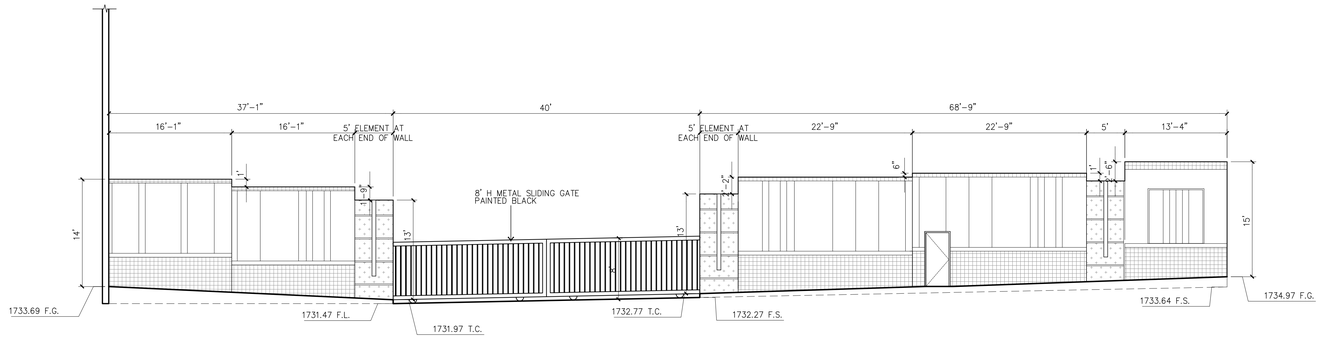
OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

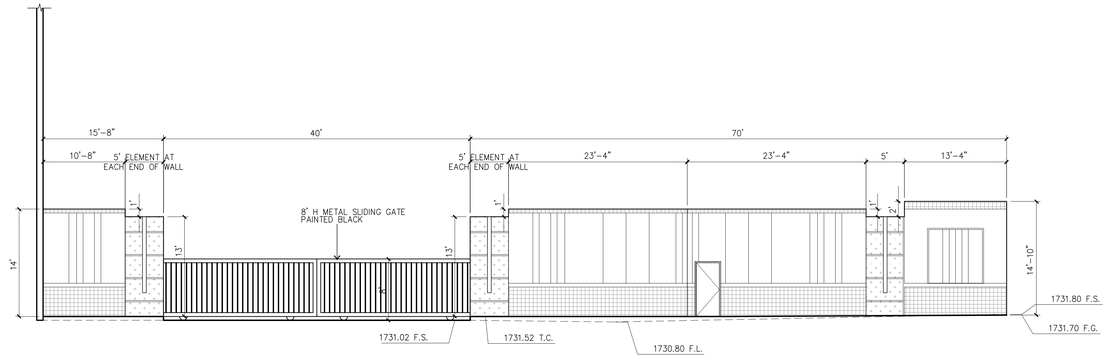
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)



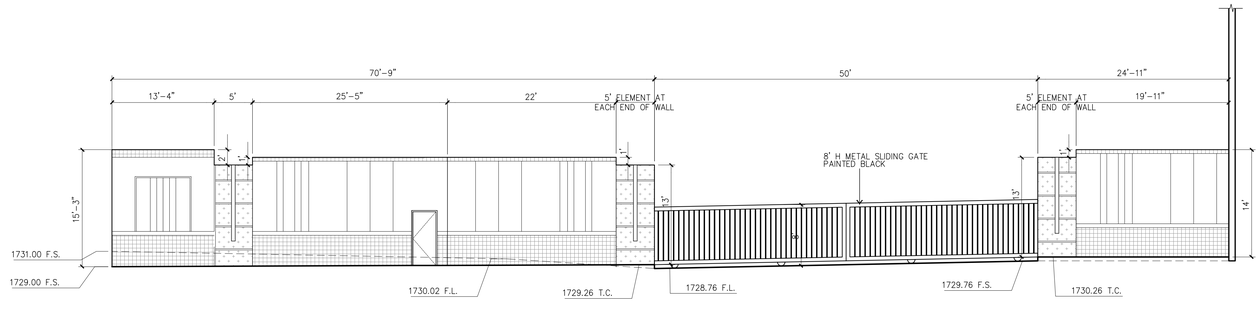
SCREENWALL ELEVATION A
scale: 1/8" = 1'-0"



SCREENWALL ELEVATION B
scale: 1/8" = 1'-0"

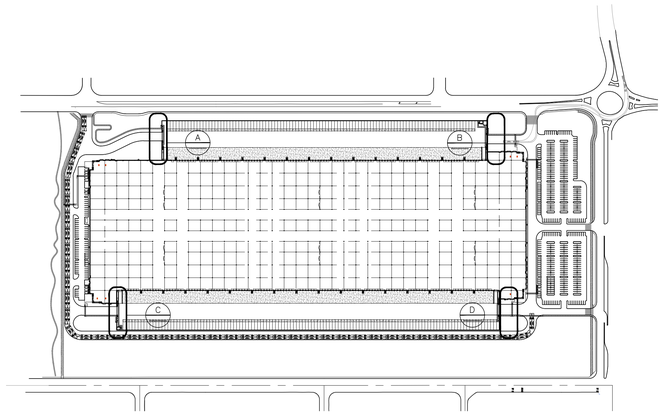


SCREENWALL ELEVATION C
scale: 1/8" = 1'-0"



SCREENWALL ELEVATION D
scale: 1/8" = 1'-0"

KEYMAP



HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: SCREENWALL ELEVATION

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

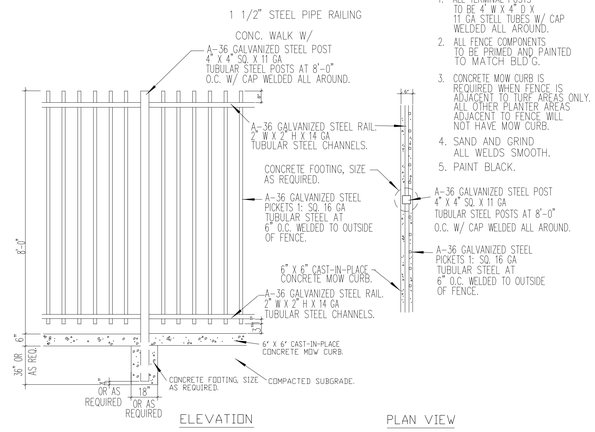
Sheet:

DAB-A3.3

OPTION 1

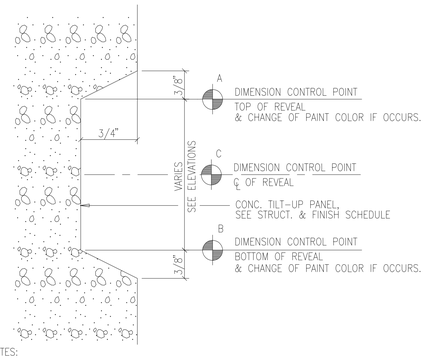
CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)



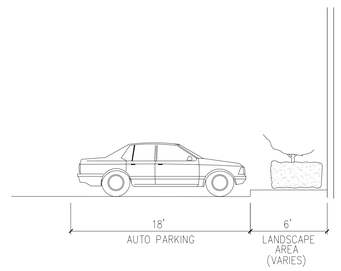
NOTES:
1. ALL TERMINAL POSTS TO BE 4" W X 4" D X 11 GA STELL TUBES W/ CAP WELDED ALL AROUND.
2. ALL FENCE COMPONENTS TO BE PRIMED AND PAINTED TO MATCH BLD'G.
3. CONCRETE MOW CURB IS REQUIRED WHEN FENCE IS ADJACENT TO TURF AREAS ONLY. ALL OTHER PLANTER AREAS ADJACENT TO FENCE WILL NOT HAVE MOW CURB.
4. SAND AND GRIND ALL WELDS SMOOTH.
5. PAINT BLACK.

METAL FENCE DETAIL F
scale: N.T.S.

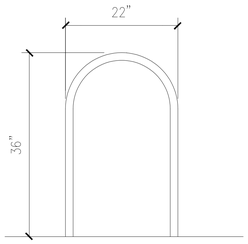


NOTES:
1. DIMENSION CONTROL POINTS AT REVEALS AND EDGE OF CONCRETE OPENINGS WHERE OCCUR, SEE WALL SECTIONS.
2. PAINT COLOR CHANGES TO ALWAYS OCCUR AT CONTROL POINT "A" OR "B"

TYP. CONCRETE REVEAL E
scale: N.T.S.



TYPICAL PARKING SECTION B
scale: N.T.S.



NOTE: PATTERSON-WILLIAMS ATHLETIC MFGR CO.
MODEL NUMBER: 1608-01

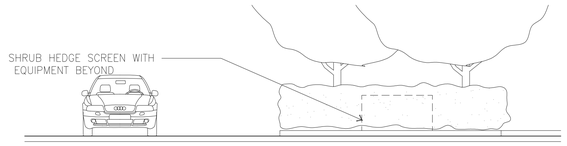
BIKE RACK G
scale: N.T.S.

ENLARGED SCREEN WALL AND GATE ELEVATION D
scale: 1/4" = 1'-0"

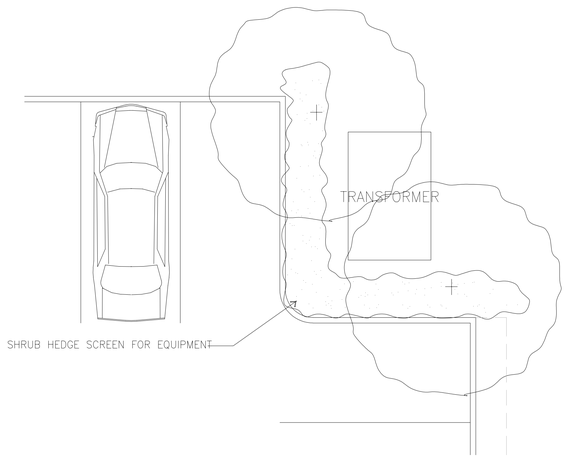
COLOR SCHED. - ELEVATIONS

1	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7531 CANVAS TAN
2	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7532 URBAN PUTTY
3	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7545 INTELLECTUAL GRAY
4	CONCRETE TILT-UP PANEL PAINT BRAND	SHERWIN WILLIAMS SW 7546 ANONYMOUS

PAINT AND MATERIAL LEGEND

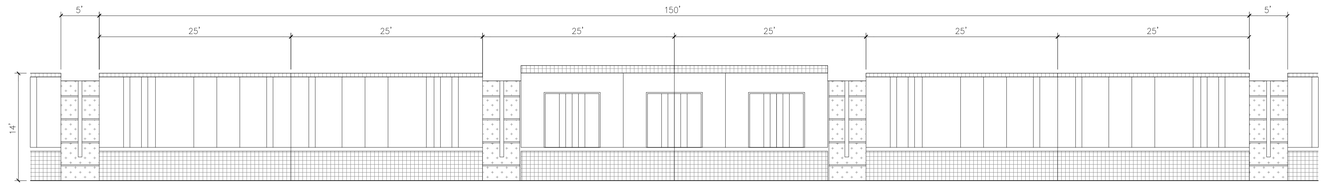


ELEVATION

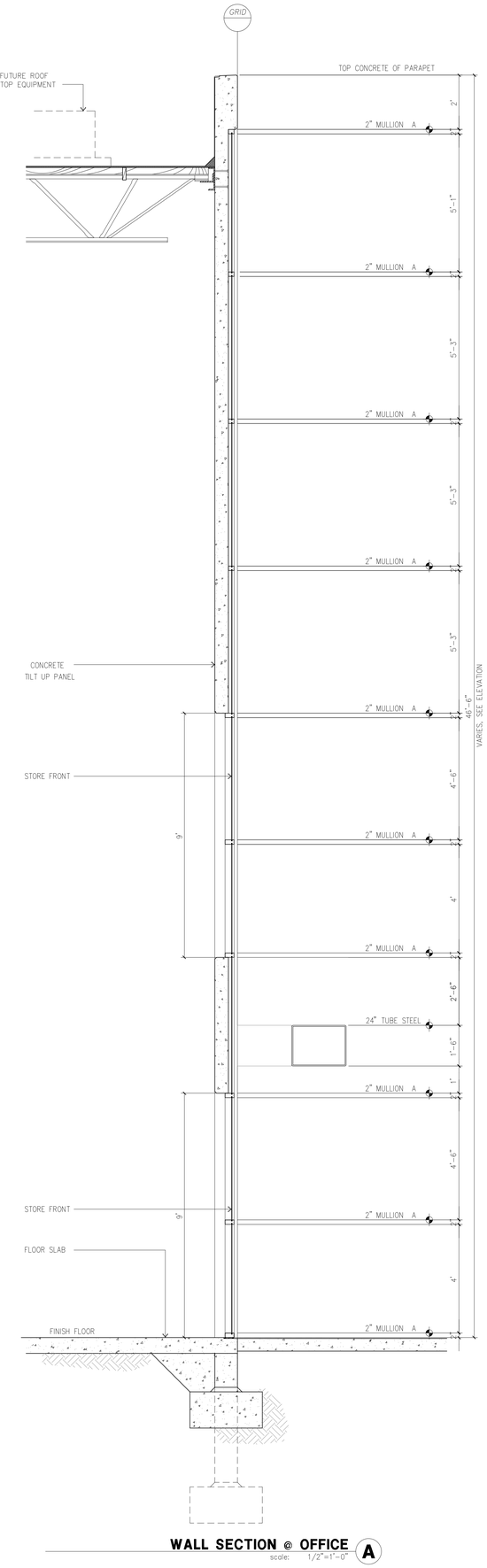


PLAN VIEW

GROUND MOUNTED EQUIPMENT SCREENING, TYP. C
scale: N.T.S.



ENLARGED SCREEN WALL, TYP. E
scale: 1/8" = 1'-0"



WALL SECTION @ OFFICE A
scale: 1/2"=1'-0"

HPA architecture
hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949-863-1770
fax: 949-863-0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY
901 Via Piemonte, Suite 175
Ontario, CA 91764
tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: section

Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

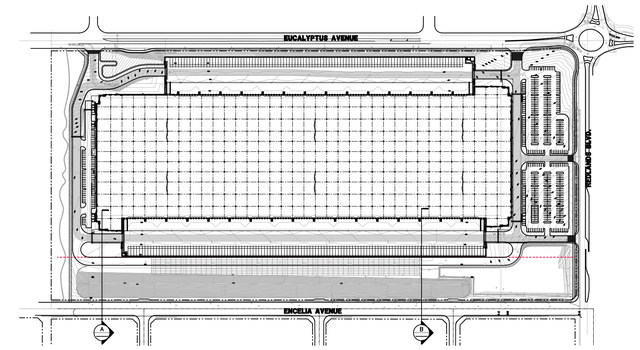
Sheet:

DAB-A4.1

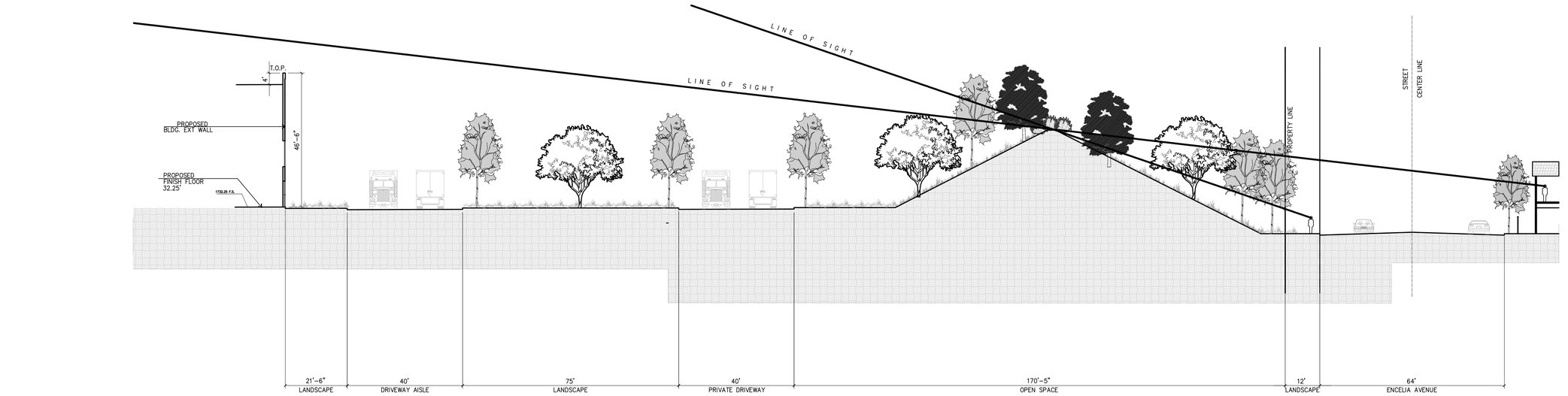
OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

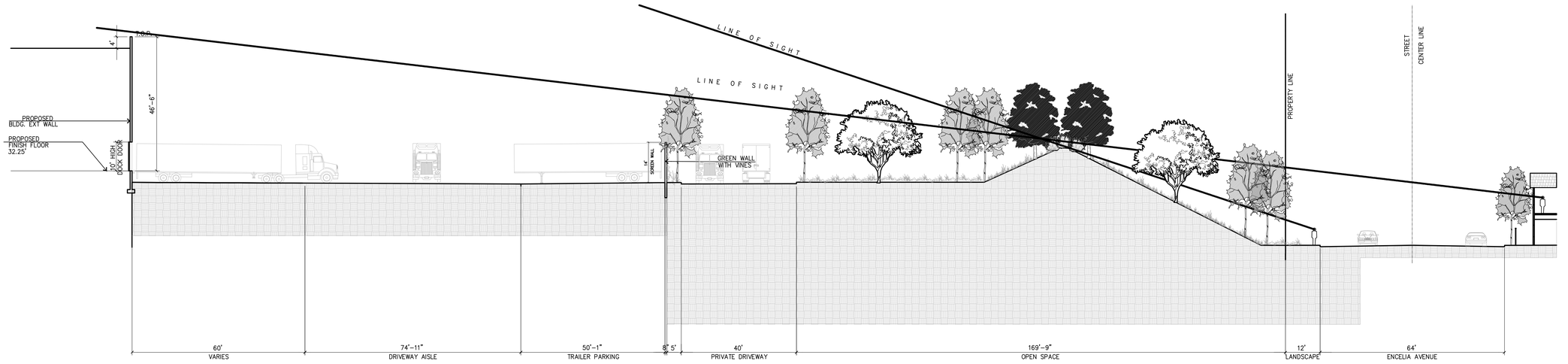
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)



KEY MAP
scale: NOT TO SCALE



CROSS SECTION AT ENCELIA AVENUE (A)
scale: 1/16"=1'-0"



CROSS SECTION AT ENCELIA AVENUE (B)
scale: 1/16"=1'-0"

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY
TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title: Site Sections

Project Number:	19137
Drawn by:	JC
Date:	10/03/19

Revision:

PEN19-0193

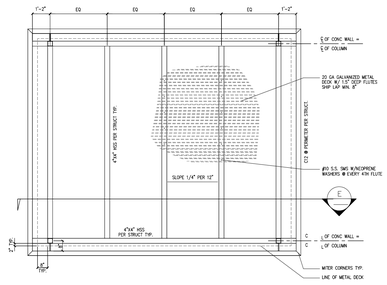
Sheet:

DAB-A4.2

OPTION 1

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

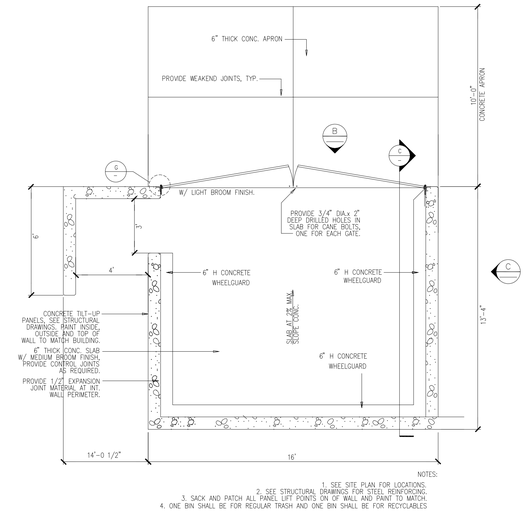
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)



NOTE: GRIND SMOOTH ALL WELDS
PRIME AND PAINT ALL HSS TO MATCH FIELD PAINT

TRASH ENCLOSURE ROOF PLAN D

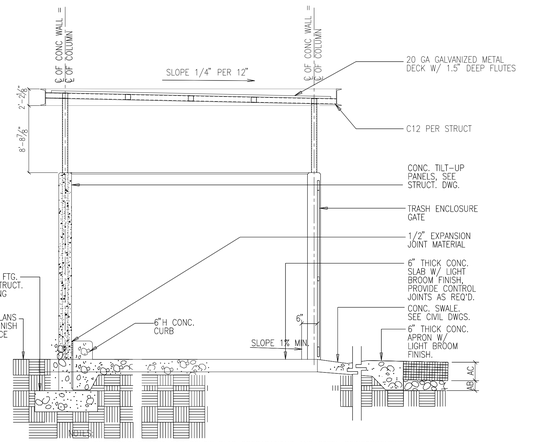
scale: 1/4" = 1'-0"



NOTES:
1. SEE SITE PLAN FOR LOCATIONS.
2. SEE STRUCTURAL DRAWINGS FOR STEEL REINFORCING.
3. SACK AND PATCH ALL PANEL LIFT POINTS ON OF WALL AND PAINT TO MATCH.
4. ONE BIN SHALL BE FOR REGULAR TRASH AND ONE BIN SHALL BE FOR RECYCLABLES

ENLARGED TRASH ENCLOSURE PLAN A

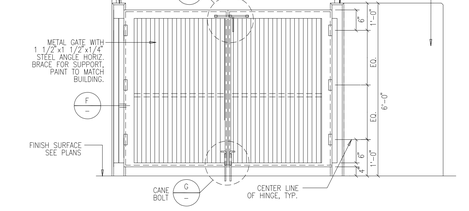
SCALE: 1"=10'-0"



1. SEE SOILS REPORT FOR BELOW SLAB PREPARATIONS AND STEEL REINFORCEMENT RECOMMENDATIONS.

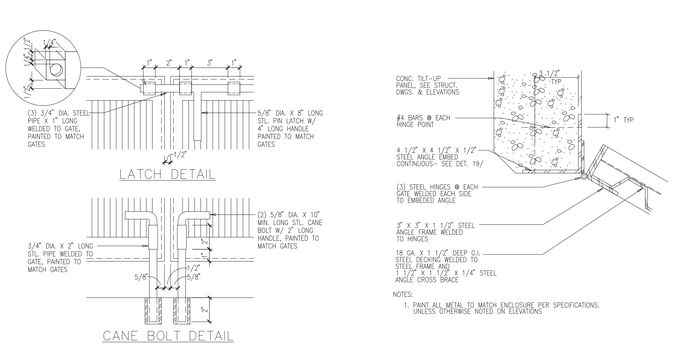
TRASH ENCLOSURE SECTION E

scale: NTS



TRASH ENCLOSURE GATE ELEVATION B

scale: 1/4" = 1'-0"



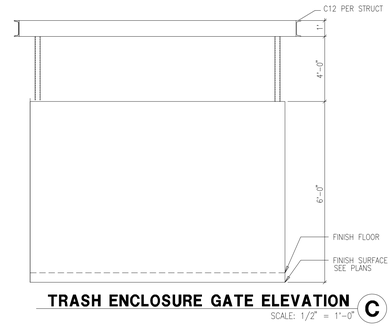
TRASH ENCLOSURE GATE LATCHES G

SCALE: NTS

NOTES:
1. PAINT ALL METAL TO MATCH ENCLOSURE PER SPECIFICATIONS. UNLESS OTHERWISE NOTED ON ELEVATIONS

TRASH ENCLOSURE GATE & HINGE F

SCALE: NTS



TRASH ENCLOSURE GATE ELEVATION C

SCALE: 1/2" = 1'-0"

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949•863•1770
fax: 949•863•0851
email: hpa@hparchs.com

Owner:

HILLWOOD
A PEROT COMPANY

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE.
AND REDLANDS BLVD.

Eucalytus Avenue
Moreno Valley, CA 92551

Consultants:

Civil:	Thienes Engineering
Structural:	-
Mechanical:	-
Plumbing:	-
Electrical:	-
Landscape:	Hunter Landscape
Fire Protection:	-
Soils Engineer:	-

Title:	Trash enclosure
Project Number:	19137
Drawn by:	JC
Date:	10/03/19
Revision:	

PEN19-0193

Sheet:

DAB-A4.3

OPTION 1

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)

CAUTION: IF THIS SHEET IS NOT 30"X42" IT IS A REDUCED PRINT

BUILDING 1 NORTH ELEVATION - EUCALYPTUS AVENUE

BUILDING 1 WEST ELEVATION - QUINCY CHANNEL

BUILDING 1 SOUTH ELEVATION - ENCELIA AVENUE

BUILDING 1 EAST ELEVATION - REDLANDS BLVD.

ENLARGED VIEW OF BUILDING 1 WEST ELEVATION - QUINCY CHANNEL

HILLWOOD
A PEROT COMPANY

04.01.2022

HPA architecture

JOB NO. 19524.00

CONCEPTUAL ELEVATIONS - OPTION 1

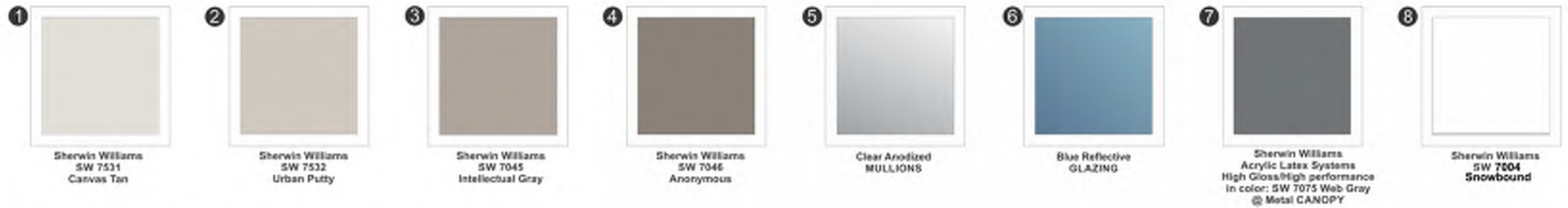
EUCALYPTUS AVE. & REDLANDS BLVD.

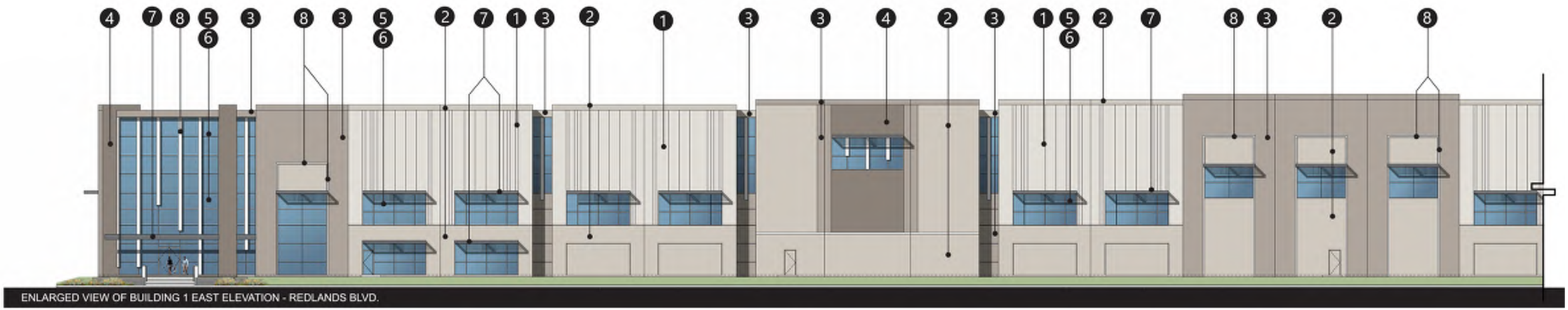
MORENO VALLEY, CALIFORNIA

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)

BUILDING 1 SOUTH ELEVATION - ENCELIA AVENUE

BUILDING 1 EAST ELEVATION - REDLANDS BLVD.





ENLARGED VIEW OF BUILDING 1 EAST ELEVATION - REDLANDS BLVD.

HILLWOOD
A PEROT COMPANY

04.01.2022

HPA architecture
JOB NO. 19524.00

CONCEPTUAL ELEVATIONS & MATERIAL BOARD -TYPICAL

EUCALYPTUS AVE. & REDLANDS BLVD.

MORENO VALLEY, CALIFORNIA

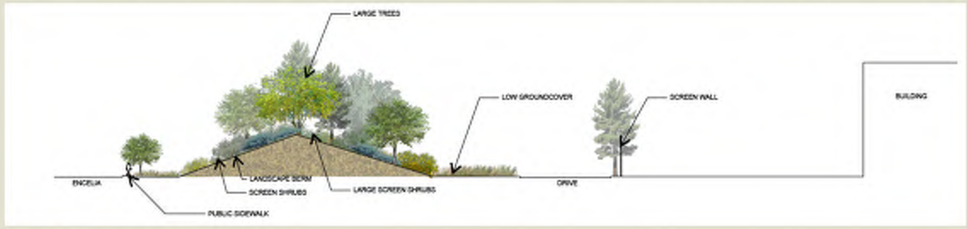
Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)

EUCALYPTUS AVENUE

EXISTING NATURAL CHANNEL

REDLANDS BOULEVARD

ENCELIA AVENUE



SECTION A-A

PLANTING LEGEND

TREES

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/U/DLE	REMARKS
	Cercidium 'Desert Museum' Blue Palo Verde	24" Box	26	L	Standard
	Chilopsis linearis Desert Willow	24" Box	33	L	Multi
	Cinnamomum camphora Camphor Tree	24" Box	70	M	Standard
	Cupressus sempervirens Italian Cypress	24" Box	20	M	
	Eucalyptus leucoxylon Red Gum	24" Box	71	M	
	Pinus canariensis Canary Island Pine	24" Box	64	M	Standard
	Pinus halepensis Aleppo Pine	24" Box	83	L	Standard
	Podocarpus chinensis Chinese Podocarp	24" Box	13	L	Standard
	Pyrus kawakamii Evergreen Pear	24" Box	83	M	Multi
	Quercus agrifolia Coast Live Oak	24" Box	88	W	Multi
	Quercus virginiana Southern Live Oak	36" Box	52	M	Standard
	Rhus lancea African Sumac	24" Box	64	L	Standard
	Tristania conferta Brisbane Box	15 Gal	170	M	Standard

SHRUBS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/U/DLE	REMARKS
	Acca sellowiana Pineapple Guava	5 Gal	0	M	
	Artemisia 'Powis Castle' Artemisia	5 Gal	0	L	
	Caryopteris 'Little John' Dwarf Bluebeard	5 Gal	0	M	
	Cistus 'Sunset Pink' Sunset Pink Rockrose	5 Gal	0	M	
	Dietes bicolor Fortnight Lily	5 Gal	0	M	
	Dodonaea viscosa 'Purpurea' Hopseed Bush	5 Gal	0	M	
	Elaeagnus pungens Silverberry	5 Gal	0	L	
	Leucophyllum f. 'Green Cloud' Texas Ranger	5 Gal	0	L	
	Lleptilon cl. 'Texanum' Texas Privet	5 Gal	0	M	
	Rhaphiolepis indica Coffeeberry	5 Gal	0	L	
	Rhamnus c. 'Mound San Bruno' Dwarf Coffeeberry	5 Gal	0	L	
	Rosmarinus o. 'Tuscan Blue' Rosemary	5 Gal	0	L	
	Salvia c. 'Allen Chickering' Allen Chickering Sage	5 Gal	0	L	
	Salvia greggii Autumn Sage	5 Gal	0	L	
	Salvia leucantha Mexican Sage	5 Gal	0	L	
	Senna artemisioides Feathery Cassia	5 Gal	0	L	
	Westringia fruticosa Coast Rosemary	5 Gal	0	L	

ACCENTS

SYMBOL	BOTANICAL/COMMON NAME	SIZE	QTY	W/U/DLE	REMARKS
	Agave americana Century Plant	5 Gal	0	L	
	Agave 'Blue Flame' Blue Flame Agave	5 Gal	0	L	
	Agave 'Blue Glow' Blue Glow Agave	5 Gal	0	L	
	Agave victoria-reginae Agave	5 Gal	0	L	
	Agave attenuata Agave	5 Gal	0	L	
	Aloe maculata Soap Aloe	5 Gal	0	L	
	Aloe striata Coral Aloe	1 Gal	0	L	
	Dasylirion wheeleri Desert Spoon	5 Gal	0	L	
	Echeveria 'Ruffles' Ruffles Echeveria	5 Gal	0	L	
	Hesperaloe parviflora Red Yucca	5 Gal	0	L	
	Leonotis 'Gold Mound' Yellow Leonotis	5 Gal	0	L	

GROUNDCOVER

SYMBOL	BOTANICAL/COMMON NAME	SIZE	SPACING	W/U/DLE	REMARKS
	Acacia redolens 'Low Boy' Dwarf Acacia	1 Gal	8' O.C.	L	
	Baccharis p. 'Pigeon Point' Dwarf Coyote Bush	1 Gal	8' O.C.	L	
	Festuca mairei Atlas Fescue	1 Gal	24" O.C.	W	Grass
	Festuca o. 'Glauca' Blue Fescue	1 Gal	12" O.C.	W	Grass
	Hemerocallis hybridus Stella Yellow Day Lily	1 Gal	24" O.C.	W	
	Lantana 'Hallana' Hal's Honeysuckle	1 Gal	48" O.C.	L	
	Muhlenbergia capillaris Pink Muhly	1 Gal	36" O.C.	L	Grass
	Myoporum parvifolium Myoporum	1 Gal	36" O.C.	L	
	Nassella tenuissima Mexican Feather Grass	1 Gal	24" O.C.	VL	Grass
	Pennisetum messiacum Red Bunny Tails Fountain Grass	1 Gal	36" O.C.	L	Grass
	Pennisetum o. 'Little Bunny' Little Bunny Fountain Grass	1 Gal	12" O.C.	L	Grass
	Pennisetum orientale Oriental Fountain Grass	1 Gal	36" O.C.	L	Grass
	Rosa 'Flower Carpet' Red Red Flower Carpet Rose	1 Gal	36" O.C.	L	
	Rosmarinus o. 'Huntington Carpet' Prostrate Rosemary	1 Gal	48" O.C.	L	
	Sesleria autumnalis Moor Grass	1 Gal	18" O.C.	M	Grass
	Trachelospermum jasminoides Star Jasmine	1 Gal	24" O.C.	M	
	Tulbaghia violacea Society Garlic	1 Gal	24" O.C.	M	

Basin Seed Mix
- 20 lbs/ac Wood cellulose fiber
- 800 lbs/ac 13-0-1 Blood organic fertilizer
- 100 lbs/ac Bedding binder
- 20 lbs/ac Erodo wil mycorrhizal inoculum
- 1 lbs/ac Achillea millefolium
- 1 lbs/ac Baccharis/Hotalia canadensis
- 1 lbs/ac Juncus bufonius
- 4 lbs/ac Lotumus tricoides ilos
- 4 lbs/ac Oenothera canadensis
- 20 lbs/ac Festuca rubra 'Arcata'
- 1 lbs/ac Horidium brachyantherum
- 1 lbs/ac Muhlenbergia rigens
- 3 lbs/ac Muhlenbergia microsperma
- 3 lbs/ac Horidium depressum

Parking Lot Shading
Required: 49,555 sf (50% of 99k)
Provided: 50,111 sf (50%)

Multi-purpose trail per Community Services District standards. Under separate permit

NOTES:
1. ALL ABOVE GROUND EQUIPMENT WILL BE SCREENED WITH SHRUBS

DECORATIVE PAVING AS NOTED ON PLANS

N

0 40' 80' 160'

Eucalyptus Ave and Redlands Blvd.

19-075
08.16.19 06.24.20 12.23.20
11.05.19 07.24.20 04.08.22
03.31.20 10.16.20

Hillwood

Moreno Valley, California

HUNTER LANDSCAPE
711 FEE ANA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2408

Attachment: Site, Elevation, and Landscape Plans (6209 : Moreno Valley Trade Center/Park)

PRELIMINARY GRADING PLAN
OPTION 1–HIGH CUBE LOGISTICS SITE PLAN

LEGAL DESCRIPTION:

REAL PROPERTY IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

PARCEL 1: APN 488–340–005–0

THE NORTH 350' OF LOT 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE(S) 10, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY.

EXCEPTING THEREFROM THE SOUTH 175' OF SAID NORTH 350'.

PARCEL 2: APN 488–340–007–2

THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 72 FEET OF THE EAST 275 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 3: APN 488–340–006–1

THE NORTH 72 FEET OF THE EAST 275 FEET OF THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THAT PORTION INCLUDED WITHIN REDLANDS BOULEVARD.

PARCEL 4: APN 488–340–008–3

LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 350 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 5: APN 488–340–009–4

LOT 7 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

PARCEL 6: APNS 488–340–002–7, 488–340–010–4 AND 488–340–011–5

LOTS 3, 5 AND 6 IN BLOCK 54 OF MAP NO. 1, BEAR VALLEY AND ALLESANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE 10 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY RECORDS.

PARCEL 7: APN 488–340–012–6

LOT 4 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA

TOGETHER WITH THOSE PORTIONS OF FIR AVENUE AND QUINCY STREET IN SAID BLOCK LYING WEST OF THE EAST LINE AND NORTH OF THE SOUTH LINE (BOTH PROLONGATED) OF SAID LOT 4.

PARCEL 8: APNS 488–340–003–8 AND 488–340–004–9

LOTS 1 AND 2, IN BLOCK 54 IN THE COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS SHOWN BY MAP NO. 1 OF THE BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY RECORDED IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

PROJECT INFORMATION:

1. PROJECT ADDRESS: TBD
2. PROPOSED USE: I (INDUSTRIAL)
3. EXISTING ZONING:
   - "BP" (BUSINESS PARK)
   - "R2" (RESIDENTIAL 2)
   - "RA2" (RESIDENTIAL AGRICULTURE 2 DISTRICT)

PROJECT ADDRESS

PROJECT ADDRESS:

12891 REDLANDS BOULEVARD (PARCEL 1);
12925 REDLANDS BOULEVARD (PARCEL 2);
12915 REDLANDS BOULEVARD (PARCEL 3);
12981 REDLANDS BOULEVARD (PARCEL 4);
28855 FIR AVENUE (PARCEL 8);
VACANT LAND (PARCELS 5, 6, AND 7),
FONTANA, CA

SUBJECT PROPERTY:

ASSESSOR'S PARCEL NUMBER:

488–340–005 (PARCEL 1);
488–340–007 (PARCEL 2);
488–340–006 (PARCEL 3);
488–340–008 (PARCEL 4);
488–340–009 (PARCEL 5);
488–340–002 (PARCEL 6);
488–340–010 (PARCEL 6);
488–340–011 (PARCEL 6);
488–340–012 (PARCEL 7);
488–340–003 (PARCEL 8);
488–340–004 (PARCEL 8)

FLOOD ZONE DESIGNATION

ZONE: X SHADED
PANEL NO.: 06065C 0770G
DATE: AUGUST 28, 2008

UNDERGROUND UTILITIES

WATER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD.
PERRIS, CA 92585
(909) 928–6111

SEWER
EASTERN MUNICIPAL WATER DISTRICT
2270 TRUMBLE ROAD.
PERRIS, CA 92585
(909) 928–6111

ELECTRICAL
MVU – MORENO VALLEY
14325 FREDERICK ST. STE. 9
MORENO VALLEY CA. 92553
951–413–3500

GAS
SOUTHERN CALIFORNIA GAS COMPANY–REDLANDS
1981 W. LUGONIA AV. PO. BOX 3003
REDLANDS, CA 92374
(562) 699–7411

TELEPHONE
VERIZON– REDLANDS
1980 ORANGE TREE LN. STE. 100
REDLANDS, CA 92374
909–748–6640

SCHOOL DISTRICT
MORENO VALLEY UNIFIED SCHOOL DISTRICT
25634 ALESSANDRO BLVD.
MORENO VALLEY, CA 92553
951–571–7500

PLANNING CASE NO'S.

PEN 19–0191 (GENERAL PLAN AMENDMENT FROM R2 TO BP)
PEN 19–0192 (ZONE CHANGE FROM RA2 TO LI)
PER 19–0193 (PLOT PLAN)

OWNER/APPLICANT

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382–0033
CONTACT: KATHY HOFFER
EMAIL: KATHY.HOFFER@HILLWOOD.COM

ENGINEER

THIENES ENGINEERING
14349 FIRESTONE BLVD.
LA MIRADA, CA. 90638
PHONE: (714 521–4811
CONTACT: REINHARD STENZEL
EMAIL: REINHARD@THIENESENG.COM

TOPOGRAPHY

THIENES ENGINEERING, INC.
10–10–2019

OPTION 1 AREA SUMMARY:

PROJECT AREA	3,486,325 SQ. FT. (GROSS)	80.04 ACRES (GROSS)
LOT "A" EUCALYPTUS AVE. (FULL WIDTH DEDICATION)	129,412 SQ. FT.	2.97 ACRES
LOT "B" REDLANDS BLVD. (FULL WIDTH DEDICATION)	75,651 SQ. FT.	1.74 ACRES
LOT "C" ENCELIA AVE. (FULL WIDTH DEDICATION)	114,128 SQ. FT.	2.62 ACRES
PARCEL 1: (BUILDING)	3,167,134 SQ. FT. (NET)	72.71 ACRES (NET)

THE FOLLOWING AREAS ARE INCLUDED IN PARCEL 1 ABOVE.

QUINCY ST. VACATION	200,598 SQ. FT.	4.61 ACRES
REDLANDS BLVD. VACATION	4,329 SQ. FT.	0.10 ACRES
EUCALYPTUS AVE. VACATION	130 SQ. FT.	0.00 ACRES
TOTAL AREA VACATED	205,057 SQ. FT.	4.71 ACRES

AREAS INCLUDED IN PARCEL 1:

TRAIL EASEMENT ALONG REDLANDS BOULEVARD AND TRAIL EASEMENT / DRAINAGE EASEMENT ALONG QUINCY CHANNEL ARE INCLUDED IN PARCEL 1.

EXISTING EASEMENTS:

THE FOLLOWING EASEMENTS AND MATTERS AS DISCLOSED IN FIRST AMERICAN TITLE COMPANY PRELIMINARY TITLE REPORT ORDER NUMBER: NCS–970708–SD DATED AS OF JULY 31, 2019.

(NO.) INDICATES ITEM NUMBER PER EXCEPTIONS TO COVERAGE OF ABOVE PRELIMINARY TITLE REPORT.

(1–3) TAXES, ASSESSMENTS AND LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS, IF ANY.

(4) 4. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(5) 5. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(7) 7. THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED SEPTEMBER 30, 1983 AS INSTRUMENT NO. 169330 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID ACCEPTANCE OF OFFER ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] PLOTTED HEREON AS (7))

(14) 14. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(15) 15. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(21) 21. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(22) 22. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(28) 28. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(29) 29. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

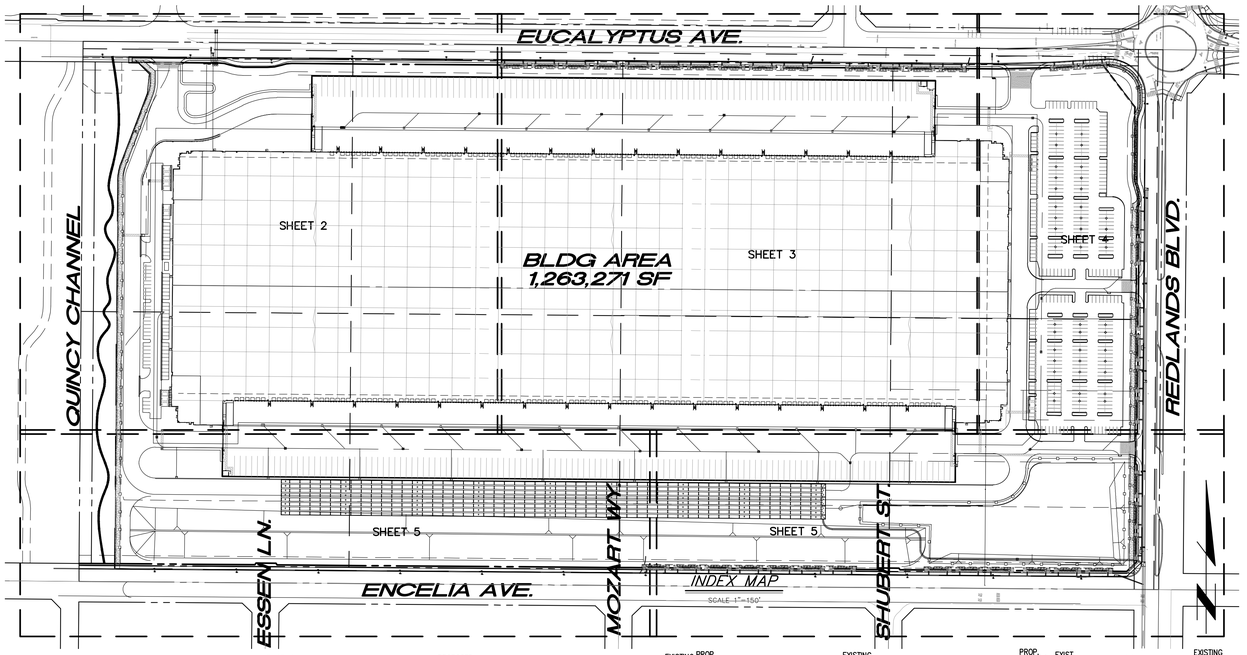
(30) 30. AN EASEMENT FOR ACCESS EASEMENT FOR THE CONSTRUCTION OF STORM DRAINAGE FACILITIES, INCLUDING INGRESS AND EGRESS FOR MAINTENANCE PURPOSES AND INCIDENTAL PURPOSES, RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0094598 OF OFFICIAL RECORDS.
IN FAVOR OF: PROLOGIS, A MARYLAND REAL ESTATE INVESTMENT TRUST
AFFECTS: AS DESCRIBED THEREIN
(SAID EASEMENT PLOTTED HEREON AS (30))

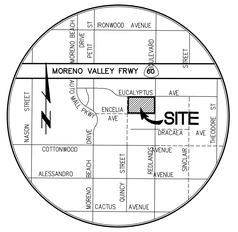
(31) 31. AN OFFER OF DEDICATION FOR PERPETUAL EASEMENT AND RIGHT OF WAY AND INCIDENTAL PURPOSES,
RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0095115 OF OFFICIAL RECORDS.
TO: CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (31))

(36) 36. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO;
RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(37) 37. AN EASEMENT FOR POLE LINES, CONDUITS AND INCIDENTAL PURPOSES, RECORDED JANUARY 03, 1938 IN BOOK 354, PAGE 495 OF OFFICIAL RECORDS.
IN FAVOR OF: NEVADA–CALIFORNIA ELECTRIC CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (37) AND TO BE QUITCLAIMED)

(38) 38. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)





VICINITY MAP
N.T.S.

SHEET INDEX	
1	TITLE SHEET
2–5	PRELIMINARY GRADING PLAN
6–10	PRELIMINARY UTILITY PLAN
11–14	PRELIMINARY STORM DRAIN PROFILE

10/13/2019

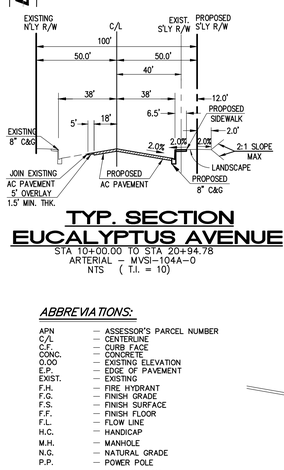
EARTHWORK BALANCE CALCULATIONS

PROJECT: EUCALYPTUS 10/1319
JOB# 3828 TOPO BY OTHERS

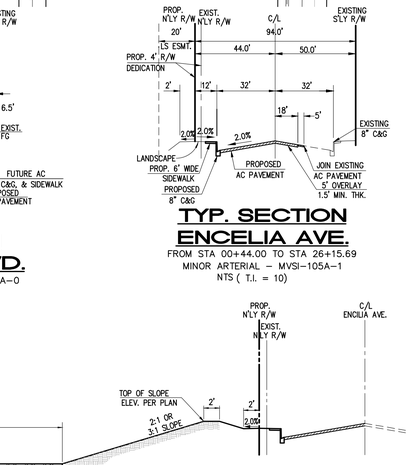
K.	SITE AREA:	3,284,601	SF
L.	SUBSIDENCE FACTOR:	0.150	
M.	SHRINKAGE FACTOR:	12.00	%
N.	SITE STRIPPING FACTOR:	0.10	
O.	OVEREXCAVATION:	286,345	CY
A.	CALCULATED CUT:	398,910	CY
B.	APPROXIMATE FOOTING AND UTILITY SPOILS	20,000	CY
B1.	EXISTING STOCKPILE		
C.	**TOTAL CUT: (A+B+B1)**	**418,910**	CY
D.	CALCULATED FILL:	303,682	CY
E.	LIGHT PAVING FILL:		CY
F.	SUBSIDENCE: (L•W)/27=	18,248	CY
G.	SHRINKAGE: (M/100)C=	50,269	CY
H.	SITE STRIPPING	12,165	
I.	OVEREXCAVATION SHRINKAGE	34,361	CY
J.	**TOTAL FILL: (D+E+F+G+HH+I)=**	**418,726**	CY
K.	**TOTAL (IMPORT) OR EXPORT:**	**184**	CY
	5.5' BLDG OVEREX		
	SITE ADJUSTMENT	0.00	

LEGEND:

- EXIST. FIRE HYDRANT
- EXIST. WATER METER
- EXIST. WATER VALVE
- EXIST. GAS VALVE
- GUY WIRE/DEADMAN
- EXIST. POWER POLE
- EXIST. SIGN
- TREE
- EXIST. MAIL BOX
- EXIST. TELEPHONE MANHOLE
- EXIST. GRADE ELEVATION
- EXIST. EDGE OF A.C. PAVEMENT
- EXIST. CURB AND GUTTER
- EXIST. SANITARY SEWER
- EXIST. GAS LINE
- EXIST. WATER LINE
- EXIST. CONTOUR
- RECIPROCAL ACCESS
- TWO ROWS OF ORANGE TREES
- CONCRETE



TYP. SECTION
EUCALYPTUS AVENUE
STA 10+00.00 TO STA 20+94.78
ARTERIAL – MVSI–104A–0
NTS (T.I. = 10)

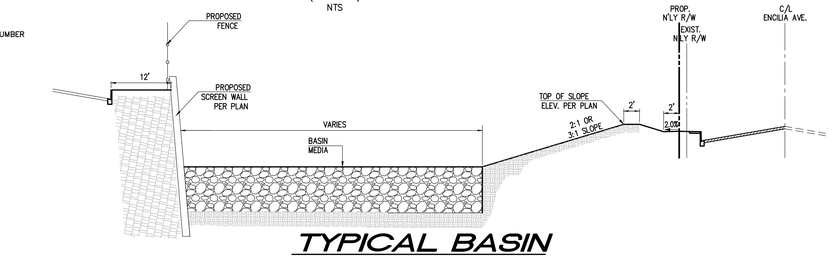


TYP. SECTION
REDLANDS BLVD.
4–LANE DIVIDED ARTERIAL – MVSI–103A–0
(T.I. = 10)
NTS

TYP. SECTION
ENCELIA AVE.
FROM STA 00+44.00 TO STA 26+15.69
MINOR ARTERIAL – MVSI–105A–1
NTS (T.I. = 10)

ABBREVIATIONS:

APN	—	ASSESSOR'S PARCEL NUMBER
C/L	—	CENTERLINE
C.F.	—	CURB FACE
CONC.	—	CONCRETE
O.OO	—	EXISTING ELEVATION
E.P.	—	EDGE OF PAVEMENT
EXIST.	—	EXISTING
F.H.	—	FIRE HYDRANT
F.G.	—	FINISH GRADE
F.S.	—	FINISH SURFACE
F.F.	—	FINISH FLOOR
F.L.	—	FLOW LINE
H.C.	—	HANDICAP
M.H.	—	MANHOLE
N.G.	—	NATURAL GRADE
P.P.	—	POWER POLE
R/W	—	RIGHT OF WAY
R	—	RATE OF GRADE



TYPICAL BASIN SECTION
NTS

STREET PAVEMENT NOTE:

THE FOLLOWING STREET SEGMENTS TO RECEIVE PAVEMENT WORK. WORK SHALL BE AT LEAST A 2 INCH GRIND AND INLAY PER CITY STANDARDS. SLURRY SEAL IS ALLOWED ON APPROVED PARTIAL SEGMENTS BASED UPON A PCI OF 75 OR GREATER (PER CITY ENGINEER). WORK ALSO INCLUDES RESTRIPING AND ADA PEDESTRIAN RAMP IMPROVEMENTS PER CITY STANDARDS.

A. ALESSANDRO – WLC PARKWAY TO VIRGINIA STREET
B. COTTONWOOD – MORENO BEACH TO REDLANDS
C. REDLANDS – BAY TO DRACAEA
D. DRACAEA – WESTFORD TO REDLANDS
E. JOHN F. KENNEDY – CACTUS TO MORENO BEACH

PROPOSED EASEMENTS, DEDICATIONS AND VACATIONS:

(1) INDICATES EASEMENTS FOR STREET AND HIGHWAY PURPOSES TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

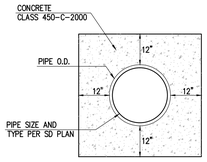
(2) INDICATES PORTIONS OF REDLANDS BOULEVARD, EUCALYPTUS AVENUE AND QUINCY STREET TO BE VACATED ON PARCEL MAP.

(3) INDICATES EASEMENTS FOR TRAIL PURPOSES TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

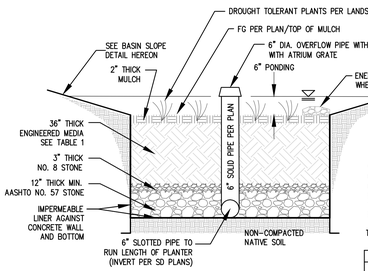
(4) INDICATES AN EASEMENT FOR DRAINAGE AND MAINTENANCE PURPOSES (QUINCY CHANNEL) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

(5) INDICATED ADDITIONAL RIGHT–OF–WAY FOR PEDESTRIAN ACCESS ACROSS THE PROPOSED DRIVEWAYS TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

(6) INDICATES EASEMENTS FOR LID WATER QUALITY IMPROVEMENT PURPOSES (BMP) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.



SD CULVERT
PIPE ENCASEMENT
NTS

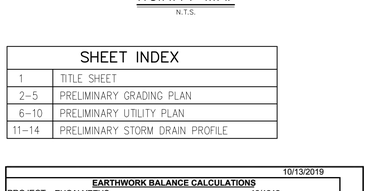


ONSITE – BIORETENTION
N.T.S.

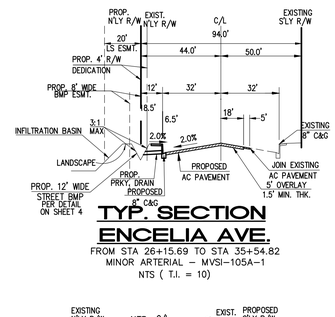
* THE ENGINEERED SOIL MEDIA SHALL BE COMPRISED OF 85 PERCENT MINERAL COMPONENT (PER TABLE 1) AND 15 PERCENT ORGANIC COMPONENT BY VOLUME. THE ORGANIC COMPONENT SHALL BE NITROGEN STABILIZED COMPOST.

TABLE 1: MINERAL COMPONENT RANGE REQUIREMENTS (BY VOLUME)

PERCENT RANGE	COMPONENT
70–80	SAND
15–20	SILT
5–10	CLAY



BASIN SLOPE DETAIL
NTS


PROP. N'LY R/W
EXIST. N'LY R/W
EXIST. W'LY R/W
C/L
EXISTING S'LY R/W
20'
LS ESMT.
94.0'
44.0'
50.0'
PROP. 4' R/W DEDICATION
PROP. 8' WIDE BMP ESMT.
12'
32'
32'
8.5'
6.5'
18'
5'
3:1 MAX
INFILTRATION BASIN
2.0%
LANDSCAPE
PROP. PRKY. DRAIN PROPOSED

EUCALYPTUS AVENUE

N.A.P.

QUINCY CHANNEL

ZONING: R5
USE: VACANT LAND

APN: 488-340-012-6
CHAROONRATANA SUTHEP & VENA
NO ADDRESS

APN: 488-340-002-7
MV 2778
NO ADDRESS

1732.25 FF
1731.58 PAD

STA 6+00

SEE SHEET 3

SEE SHEET 5

SECTION A-A

SECTION B-B

SECTION C-C

STA. 6+00

INDEX MAP

SCALE 1"=500'

SCALE: 1"=40'

PREPARED FOR:	HILLWOOD 901 VIA PASAMONTE, SUITE 175 ONTARIO, CA 91764 PHONE: (909) 382-0033 FAX: (909) 382-0073
	Thienes Engineering, Inc. CIVIL ENGINEERING * LAND SURVEYING 14349 FIRESTONE BOULEVARD LA MIRADA, CALIFORNIA 90638 PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX

Sheet 2 of 14 Sheets

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park)

PARCEL MAP NO. 13806 (PM B 236/97-98)

EUCALYPTUS AVENUE

24+00 1037 LF OF STREET BMP PER PWQMP, SEE DETAIL ON SHEET 4

SEE SHEET 2

SEE SHEET 4

SEE SHEET 5

APN: 488-340-003-8
BC MV LAND
28855 FIR AVE

APN: 488-340-005-6
HALL ADAM & MICHELLE
12891 REDLANDS BLVD

APN: 488-340-007-2
HALL ADAM & MICHELLE

1732.25 FF
1731.58 PAD

PROPOSED CONCRETE PAVEMENT

PROPOSED STORM DRAIN SEE SHEET 6 TO 13

PROPOSED UG FIRE LINE PER UG FIRE PROTECTION PLANS

CONSTRUCT RETAINING WALL W/ SCREEN WALL

PROPOSED RETAINING WALL W/ 14-FT SCREEN WALL

CONSTRUCT SCREEN WALL

PROPOSED 14-FT SCREEN WALL TRASH ENCLOSURE

PUMP ROOM

RETAINING WALL

PROPOSED GATE

PROPOSED 6" CURB

PROPOSED 6" C&G

DEEPEN PANEL= 1.47

CONSTRUCT (2) RISERS

PROPOSED RAMP WALLS & RAILS PER SEPARATE PLAN & PERMIT

CONSTRUCT RETAINING WALL W/ FENCEFENCE

PROP. BLDG ROOF DRAIN

(7) 6-7/8" RISERS

PROPOSED 6" BLDG SEWER LINE PER PLUMBING PLANS

ROOF RUNOFF FLOW DIRECTION

PROP. BLDG ROOF RIDGE LINE PER ARCH. PLAN

EXISTING LOT LINE

S89° 33' 14.31"E 660.152

S89° 33' 14.31"E 660.505

S89° 33' 14.31"E 599.818

S89° 33' 14.31"E 599.840

N0° 2' 17.92"E 620.259

S0° 27' 17.92"W 620.005

N0° 25' 42.17"E 620.324

S0° 26' 46.38"W 175.000

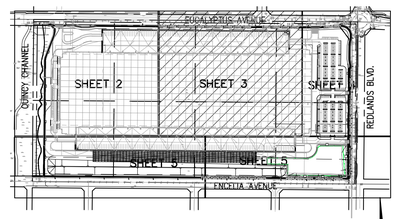
PROPOSED CONCRETE PAVEMENT

0.5%

0.7%

0 20 40 80 120

SCALE: 1"=40'



INDEX MAP

SCALE 1"=500'

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

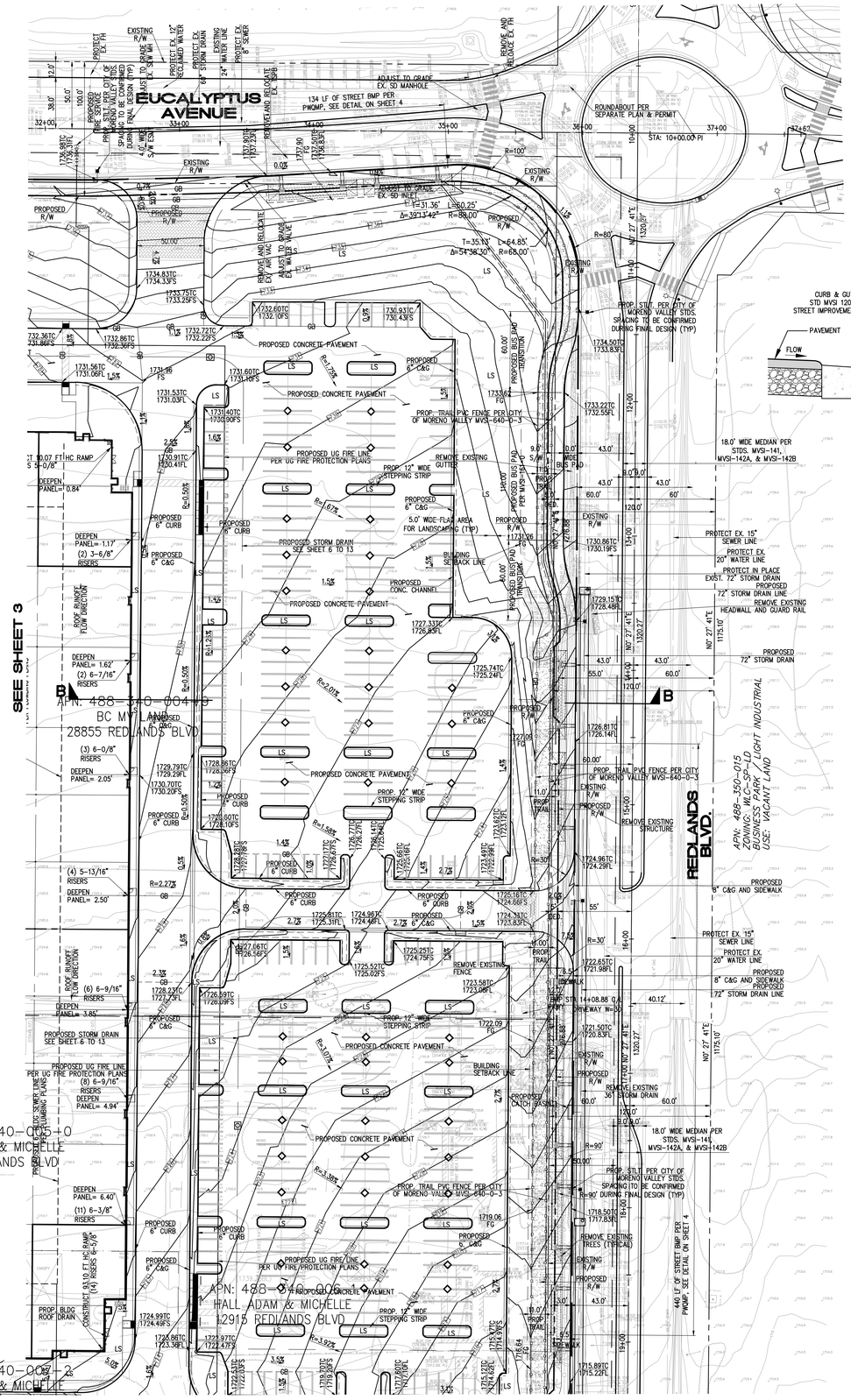
PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

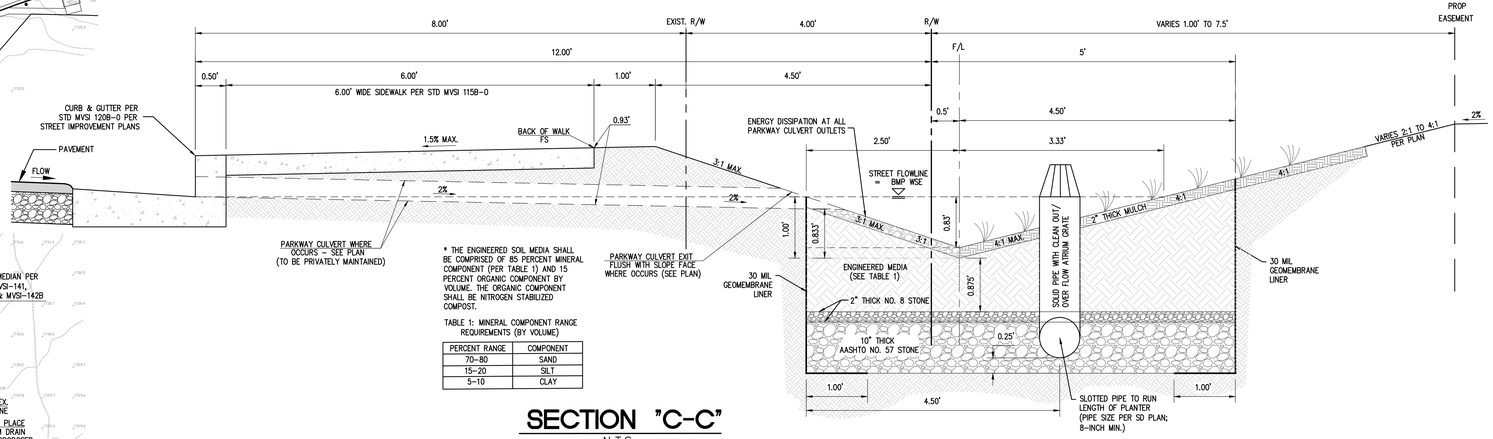
EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by		Sheet 3 of 14 Sheets	
Date			

3828/1 OF 14 SHEET

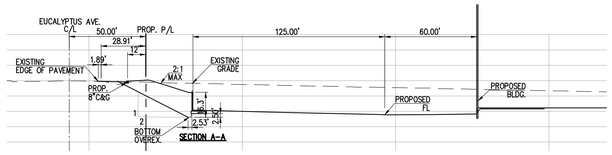
Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))



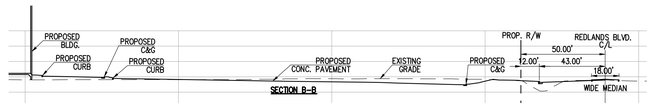


SECTION "C-C"
N.T.S.

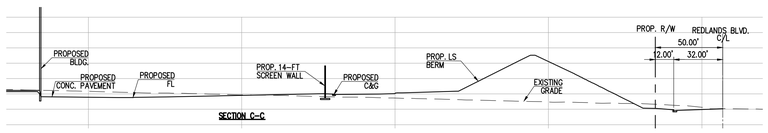
STREET BMP - BIORETENTION AREA
N.T.S.



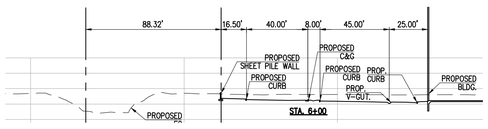
SECTION A-A

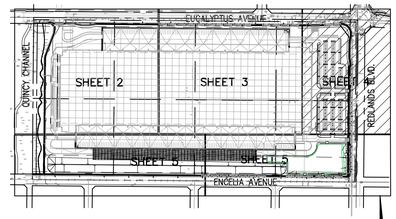


SECTION B-B



SECTION C-C





INDEX MAP
SCALE 1"=500'

0 20 40 80 120
SCALE: 1"=40'

PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

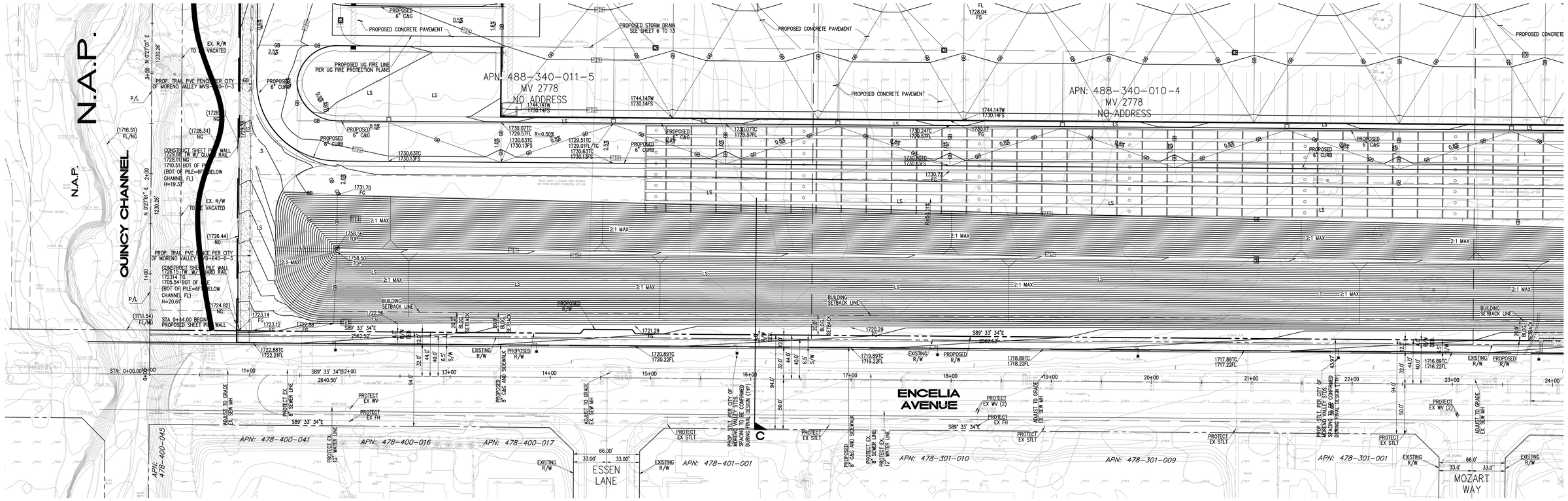
PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

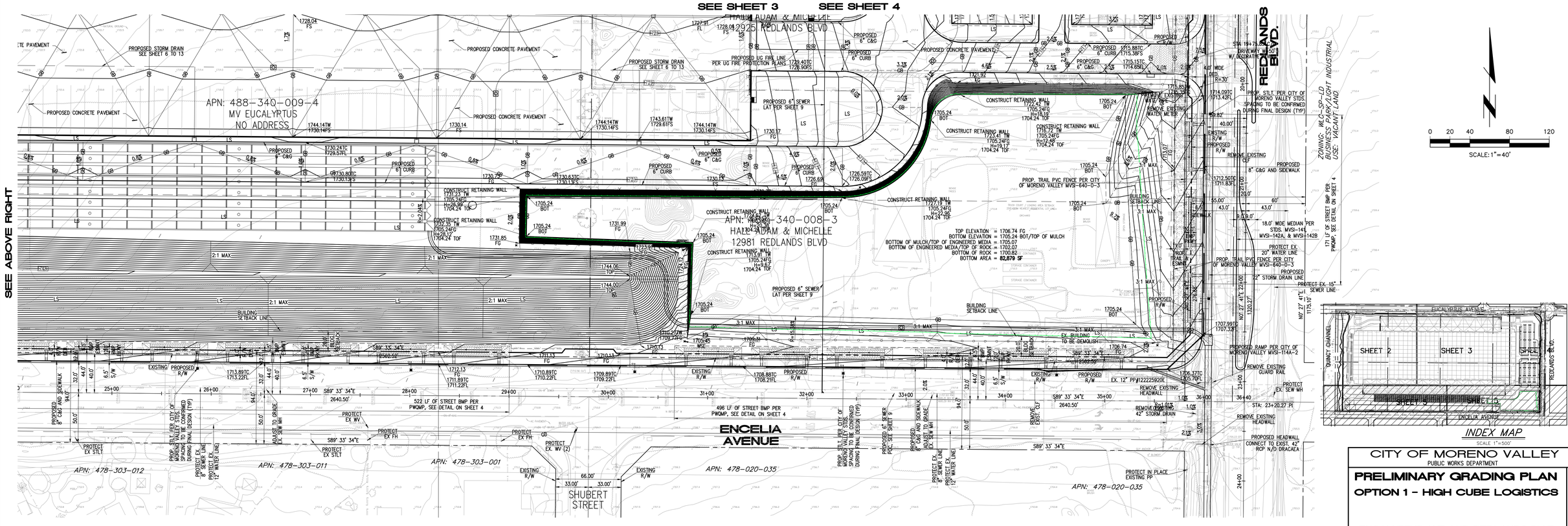
EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by ____ Date ____
Checked by ____ Date ____
Designed by ____ Date ____
Checked by ____ Date ____
Approved by ____ Date ____
Public Works Director ____ R.C.E. XXXXX
Sheet 4 of 14 Sheets

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)





0 20 40 80 120
SCALE: 1" = 40'

INDEX MAP
SCALE 1" = 500'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY GRADING PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

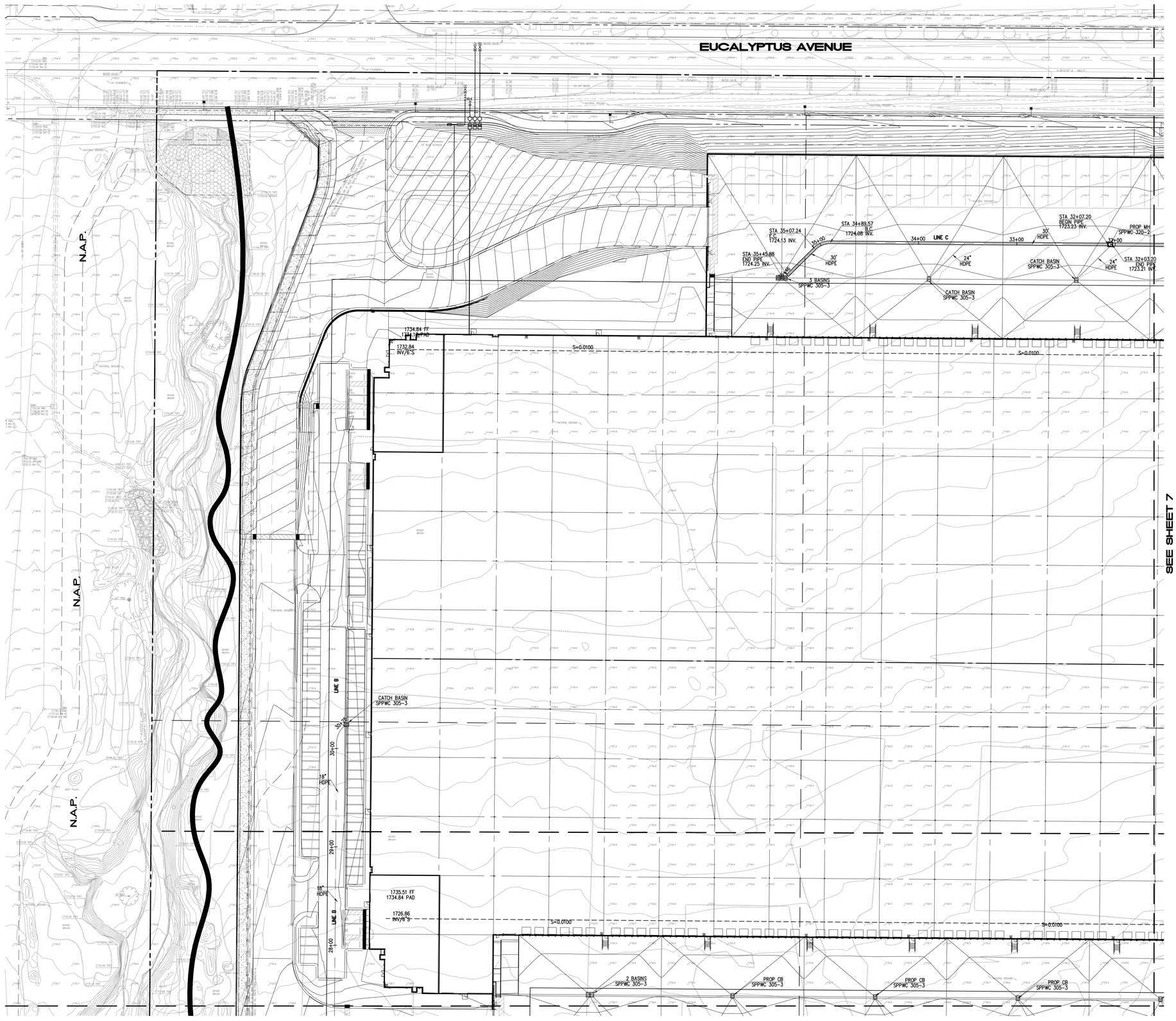
3828/1 OF 14 SHEET

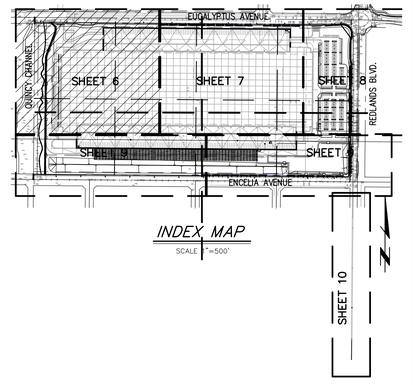
PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX
Sheet 5 of 14 Sheets

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)





INDEX MAP
SCALE 1"=500'

0 20 40 80 120
SCALE: 1"=40'

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX

Sheet 6 of 14 Sheets

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)

EUCALYPTUS AVENUE

SEE SHEET 6

SEE SHEET 8

SEE SHEET 9

LINE C

36" HDPE

24" HDPE

STA 29+07.80
BEGIN PIPE
1721.95 INV.

PROP MH
SPPWC 320-2

STA 29+03.80
END PIPE
1721.93 INV.

STA 26+08.40
BEGIN PIPE
1720.52 INV.

STA 26+04.40
END PIPE
1720.50 INV.

STA 21+58.06
BEGIN PIPE
1718.28 INV.

STA 21+53.23
END PIPE
1718.26 INV.

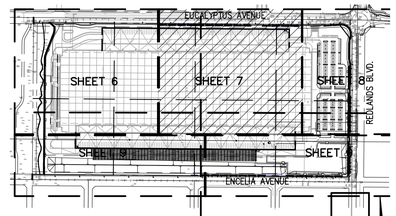
CATCH BASIN
SPPWC 305-3

2 BASIN
SPPWC 305-3

PROP CB
SPPWC 305-3

S=0.0100

31+00 30+00 29+00 28+00 27+00 26+00 25+00 24+00 23+00 22+00 21+00 20+00



INDEX MAP
SCALE 1"=500'

0 20 40 80 120
SCALE: 1"=40'

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX
Sheet 7 of 14 Sheets

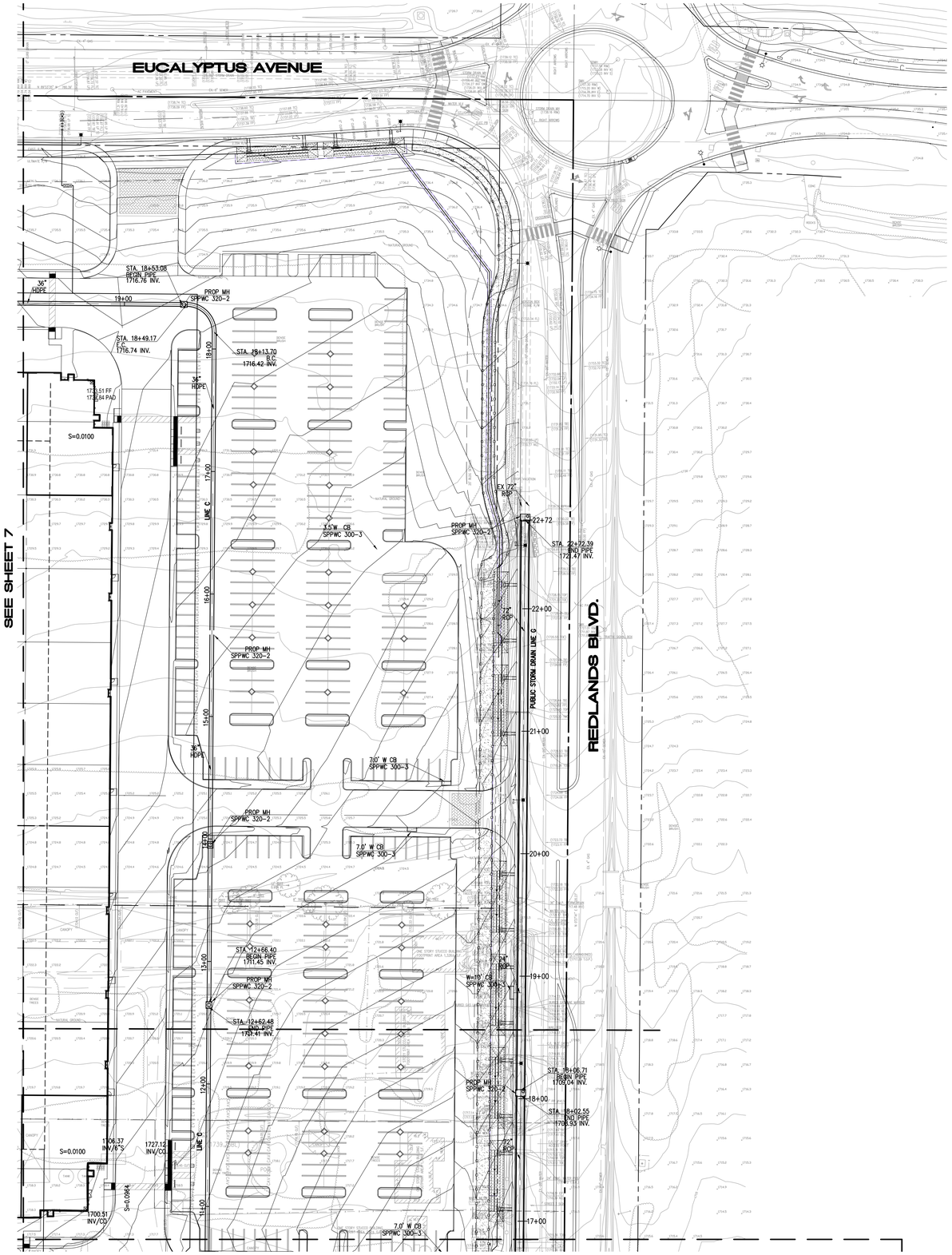
CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

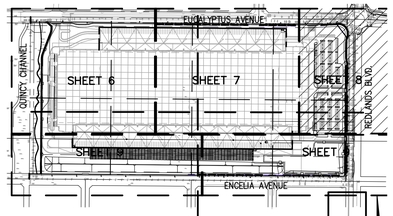
PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)





INDEX MAP
SCALE 1"=500'

0 20 40 80 120
SCALE: 1"=40'

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by			
Date		Sheet 8 of 14 Sheets	

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)

SEE SHEET 6

SEE SHEET 7

SEE BELOW LEFT

QUINCY CHANNEL

N.A.P.

PROP MH SPPWC 321-2 STA. 26+81.44 B.C. 1725.11 INV.

LINE B 26+00

PROP MH 320-2

STA. 21+05.46 BEGIN PIPE 1722.23 INV.

STA. 21+01.46 END PIPE 1722.21 INV.

STA 18+11.46 END PIPE 1720.76 INV.

STA 18+15.46 BEGIN PIPE 1720.80 INV.

STA 15+25.87 BEGIN PIPE 1717.36 INV.

STA 15+21.87 END PIPE 1717.39 INV.

PROP CB SPPWC 300-3

8 ROWS OF 1330 LF. 96" CMP TOTAL VOLUME APPROX. 534,724 C.F.

S=0.0084

S=0.0035

(1703.43) INV/8"S

(1702.12) INV/8"S

(1699.03) INV

(1698.98) INV

ENCELIA AVENUE

SEE SHEET 7

SEE SHEET 8

PROP UNDERGROUND FIRE PER UG FIRE PLAN

STA. 12+36.12 BEGIN PIPE 1711.35 INV.

STA. 12+31.95 END PIPE 1711.26 INV.

STA. 10+44.45 E.C. 1707.31 INV.

STA. 10+26.78 B.C. 1706.90 INV.

STA. 11+86.93 E.C. 1706.50 INV.

STA. 10+07.83 BEGIN PIPE 1706.34 INV.

STA. 10+30.12 BEGIN PIPE 1705.72 INV.

STA. 11+47.42 END PIPE 1706.31 INV.

PROP MH SPPWC 322-2

PROP CB SPPWC 305-3

LINE A

LINE C

LINE H

48" HDPE S=0.0050

18" PERFORATED "SPREADER" PIPE

42" HDPE

SUMP PUMP

FORCE MAIN

STA 18+54.59 END PIPE 1705.51 INV.

STA 18+16.98 B.C. 1704.81 INV.

STA 16+23.44 E.C. 1701.23 INV.

STA 15+88.10 B.C. 1700.58 INV

STA 15+64.06 E.C. 1700.13 INV

STA 15+28.72 B.C. 1699.48 INV

STA. 13+15.85 BEGIN PIPE 1698.95 INV.

STA. 13+11.85 END PIPE 1698.94 INV.

PROP MH SPPWC 320-2

STA. 10+03.36 BEGIN PIPE 1709.06 INV.

STA. 15+92.77 END PIPE 1708.53 INV.

STA. 15+96.93 BEGIN PIPE 1708.55 INV.

STA. 10+60.14 1709.58 INV.

STA. 10+42.46 B.C. 1709.42 INV.

STA 18+23.44 END PIPE 1710.15 INV. 7.0' W CB SPPWC 300-3

1700.06 INV/6"S 1708.88 INV/48"SD

1699.90 INV/8"CO

1698.06 INV/8"CO

1698.45 INV/6"S

1697.33 INV/6"S

1696.30 INV/6"S

1698.96 INV/42"SD 1697.06 INV/CO

(1696.51) INV

(1695.43) INV/8"S

S=0.0100

S=0.0200

S=0.0035

W=10' CB SPPWC 300-3

24" RCP

42" RCP

72" RCP

STA. 10+25.07 BEGIN PIPE 1698.22 INV.

STA. 10+20.31 E.C. 1698.21 INV.

STA. 13+06.57 E.C. INV. 1695.88 INV.

STA. 13+62.38 BEGIN PIPE 1697.17 INV.

STA. 10+09.77 B.C. 1695.18 INV.

STA. 10+08.24 BEGIN PIPE 1694.18 INV.

STA. 13+92.55 END PIPE 1695.91 INV.

(1696.40) INV/SD

PROJ. STORM DRAIN LINE C

REDLANDS BLVD.

SHUBERT STREET

SEE ABOVE RIGHT

SEE SHEET 9

INDEX MAP

SCALE 1"=500'

EUCALYPTUS AVENUE

QUINCY CRANNELL

REDLANDS BLVD.

SHEET 6

SHEET 7

SHEET 8

SHEET 9

SHEET 10

ENCELIA AVENUE

0 20 40 80 120

SCALE: 1"=40'

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

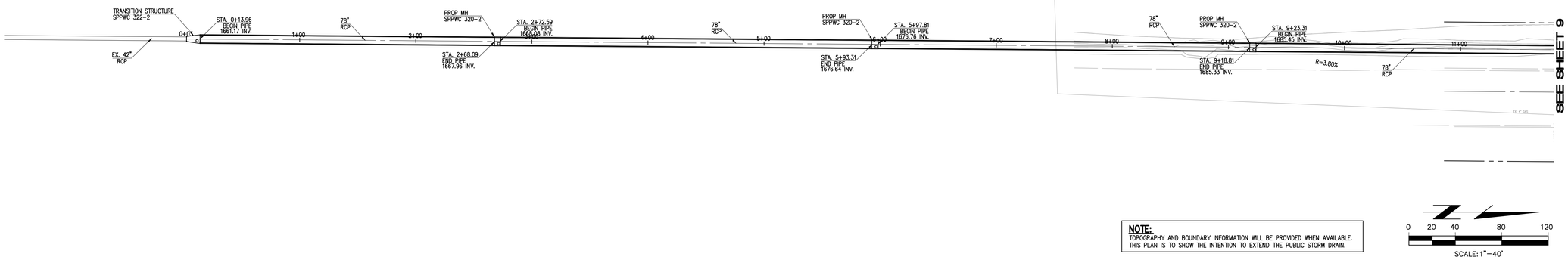
Designed by		Approved by	Date
Date			
Checked by			
Date		Public Works Director	R.C.E. XXXXX
Designed by			
Date			
Checked by		Sheet 9 of 14 Sheets	
Date			

3828/1 OF 14 SHEET

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))

DRACAEA AVENUE

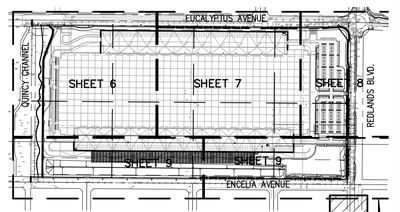
REDLANDS BOULEVARD



NOTE:
TOPOGRAPHY AND BOUNDARY INFORMATION WILL BE PROVIDED WHEN AVAILABLE. THIS PLAN IS TO SHOW THE INTENTION TO EXTEND THE PUBLIC STORM DRAIN.

0 20 40 80 120

SCALE: 1"=40'



INDEX MAP

SCALE 1"=500'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY UTILITY PLAN
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:

HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

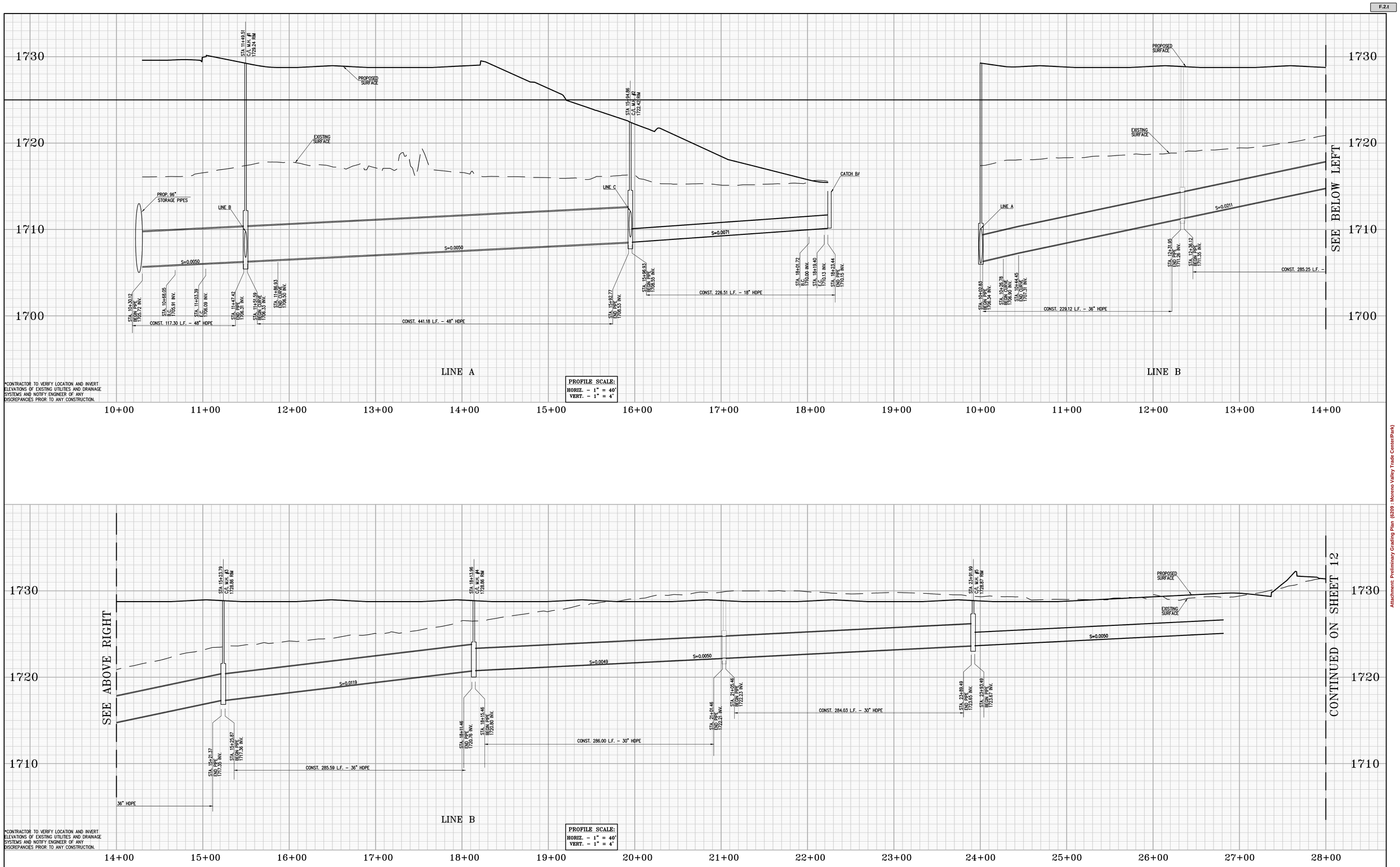
Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____

Public Works Director R.C.E. XXXXX

Sheet 10 of 14 Sheets

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'

Last Updated:3/31/21
O:\3800-3899\3828\3828COP-11 SD PROFILE VIEW.dwg

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

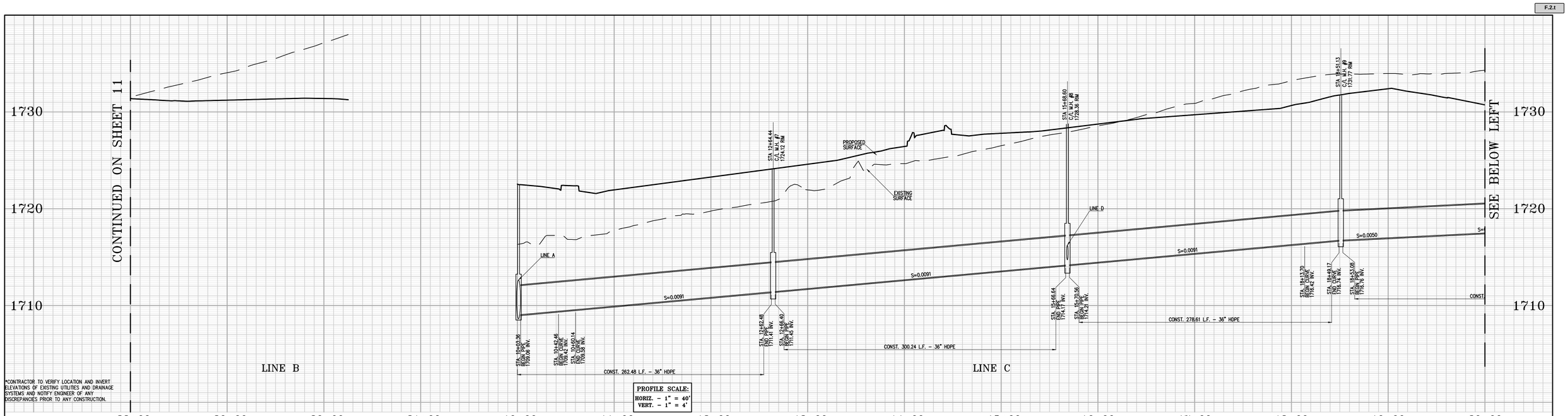
3828/1 OF 14 SHEET

PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING * LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

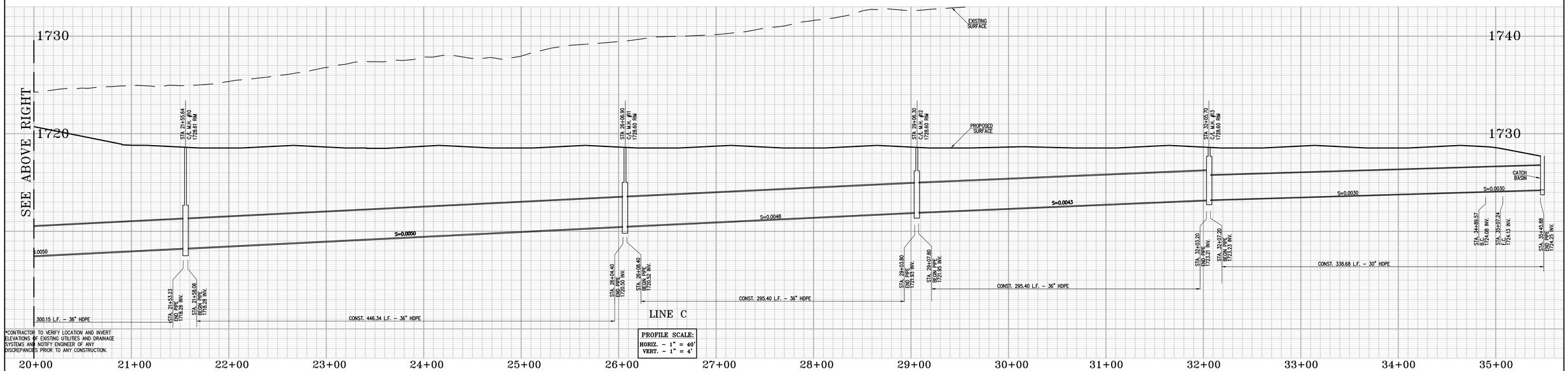
Designed by		Approved by	Date
Date			
Checked by			
Date			
Designed by		Public Works Director	R.C.E. XXXXX
Date			
Checked by		Sheet 11 of 14 Sheets	
Date			

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center/Park)



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'

Last Update:3/31/21
O:\3800-3899\3828\3828CGP-11 SD PROFILE VIEW.dwg

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 – HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

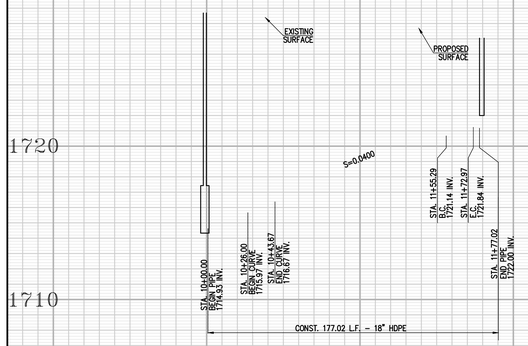
Thienes Engineering, Inc.
CIVIL ENGINEERING * LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH.(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____

Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX

Sheet 12 of 14 Sheets

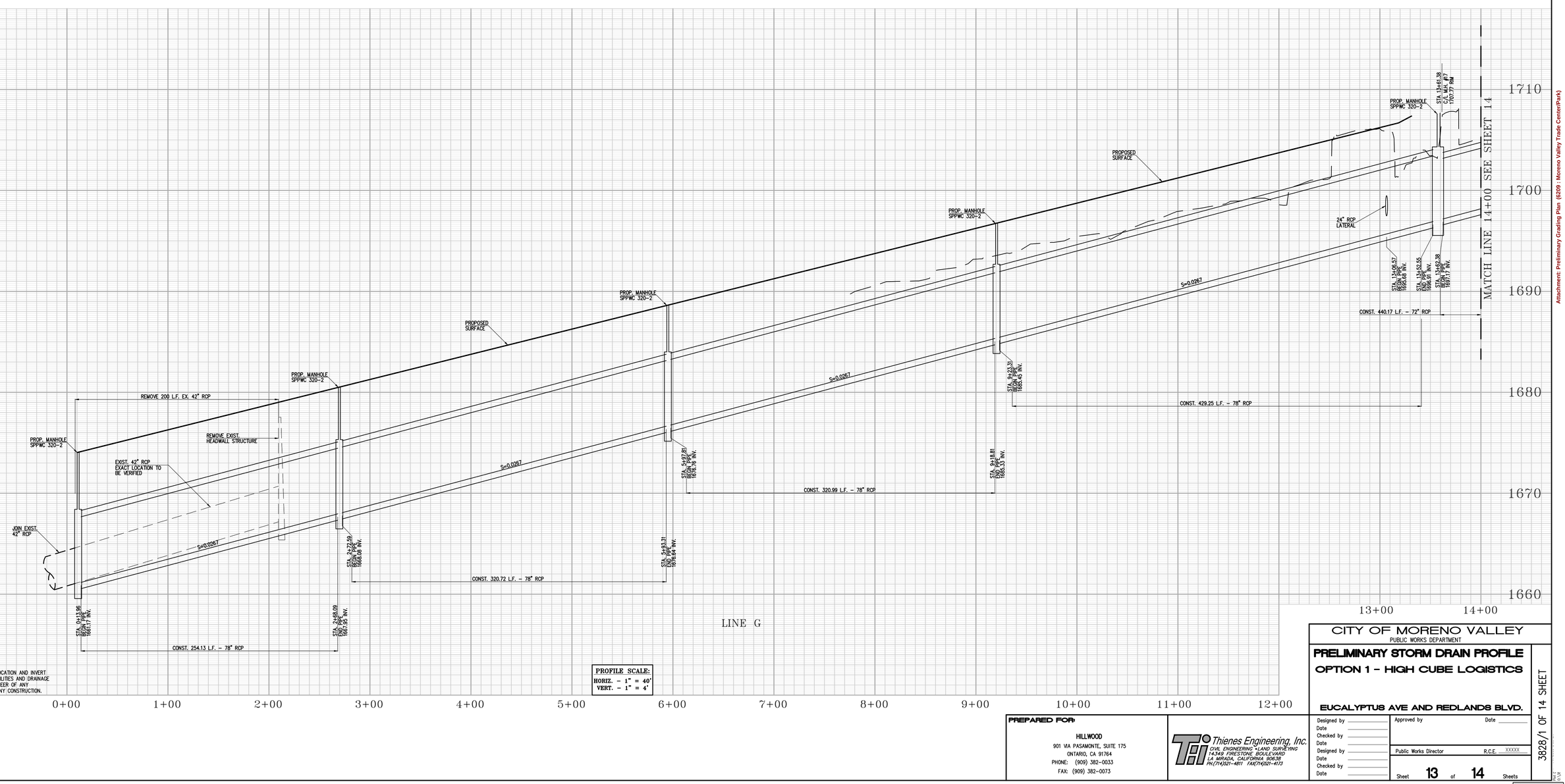
Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

LINE D

PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

LINE G

PROFILE SCALE:
HORIZ. - 1" = 40'
VERT. - 1" = 4'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 - HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

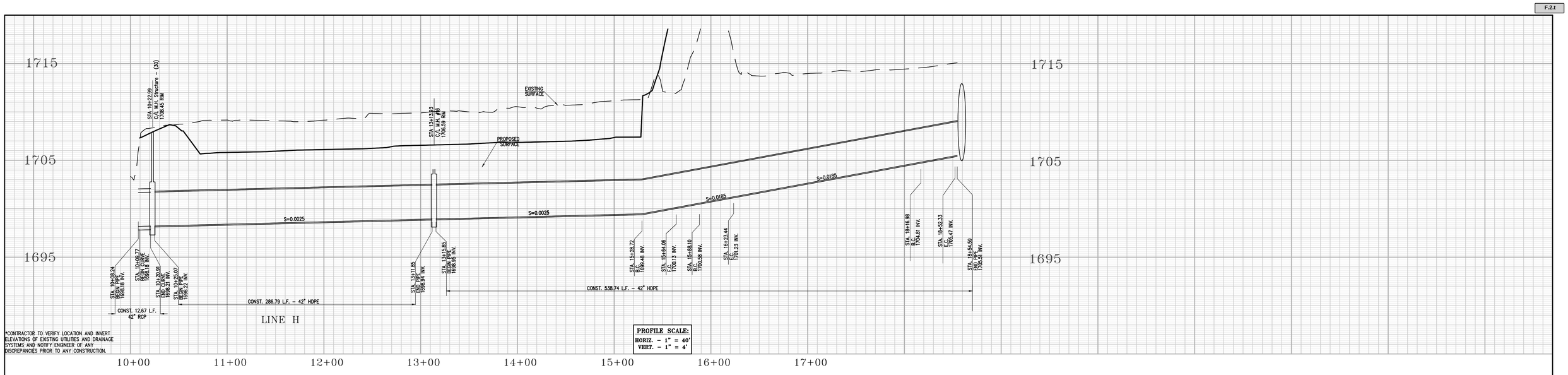
PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX:(714)521-4173

Designed by		Approved by	Date
Date			
Checked by			
Date		Public Works Director	R.C.E. XXXXX
Designed by			
Date		Sheet 13 of 14 Sheets	
Checked by			
Date			

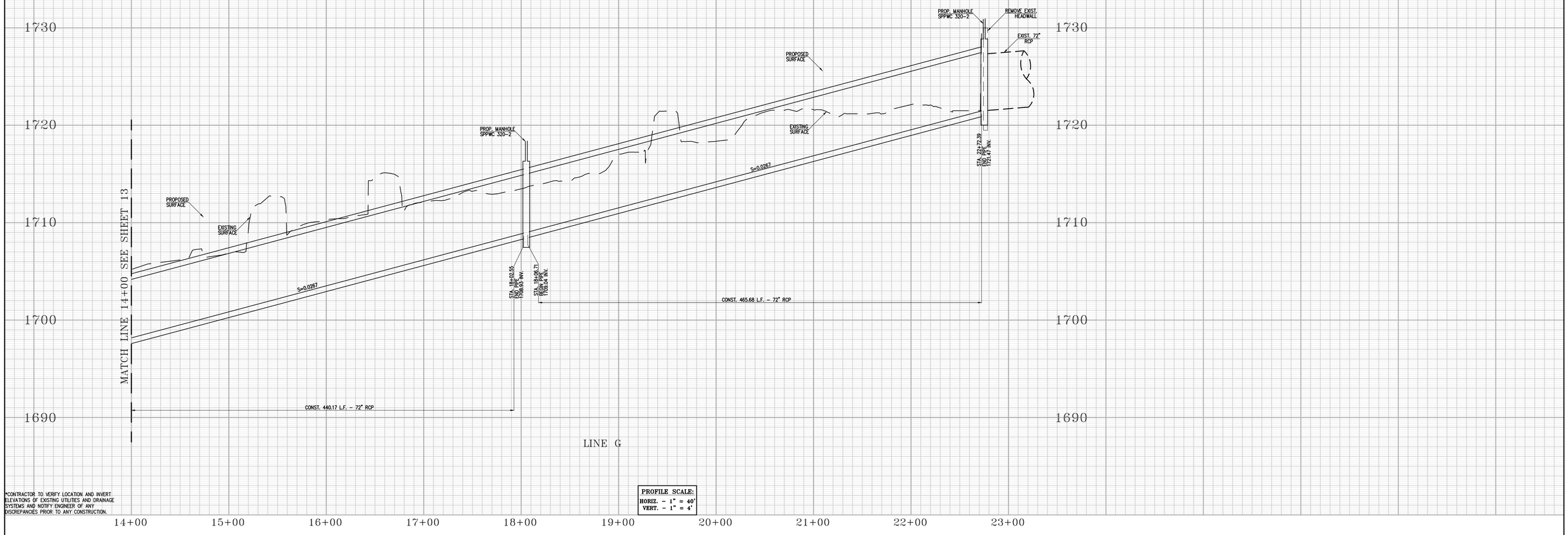
Last Update: 3/31/21
D:\3800-3899\3828\3828CGP-13 SD PROFILES.dwg

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'



*CONTRACTOR TO VERIFY LOCATION AND INVERT ELEVATIONS OF EXISTING UTILITIES AND DRAINAGE SYSTEMS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO ANY CONSTRUCTION.

PROFILE SCALE:
HORIZ. – 1" = 40'
VERT. – 1" = 4'

CITY OF MORENO VALLEY
PUBLIC WORKS DEPARTMENT

PRELIMINARY STORM DRAIN PROFILE
OPTION 1 – HIGH CUBE LOGISTICS

EUCALYPTUS AVE AND REDLANDS BLVD.

3828/1 OF 14 SHEET

Last Update: 3/31/21
O:\3800-3899\3828\3828CGP-14 SD PROFILE VIEW.dwg

PREPARED FOR:
HILLWOOD
901 VIA PASAMONTE, SUITE 175
ONTARIO, CA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073

Thienes Engineering, Inc.
CIVIL ENGINEERING • LAND SURVEYING
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PH:(714)521-4811 FAX(714)521-4173

Designed by _____ Date _____
Checked by _____ Date _____
Designed by _____ Date _____
Checked by _____ Date _____
Approved by _____ Date _____
Public Works Director _____ R.C.E. XXXXX
Sheet 14 of 14 Sheets

Attachment: Preliminary Grading Plan (6209 : Moreno Valley Trade Center(Park))

SHEET 1 OF 2
SHEET SIZE: 36" x 48"

NOTE:
SEE SHEET 2 FOR EXISTING EASEMENT NOTES, EXISTING LEGAL DESCRIPTIONS, ASSESSOR PARCEL NUMBERS, LEGEND, AREA SUMMARY, SURVEYOR'S NOTES, LINE TABLES, CURVE TABLES AND SITE PLAN DETAIL.

OWNER:
SEE SURVEYOR'S NOTES No.1
c/o HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

DEVELOPER:
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

TENTATIVE PARCEL MAP NO. 37836

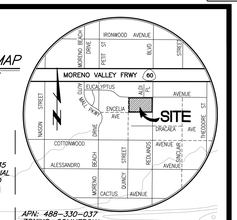
IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
BEING A SUBDIVISION OF LOTS 1 THROUGH 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

OPTION 1

SURVEYOR / PREPARED BY:
THIENES ENGINEERING, INC.
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173
email: Aris@thieneseng.com

ARCHITECT:
HPA
18831 BARDEEN AVE., SUITE 100
IRVINE, CALIFORNIA 92612
PHONE: (949) 863-1770
FAX: (949) 863-0851
Jamie@uparchs.com

VICINITY MAP
NOT TO SCALE



SCALE: 1" = 50'

PARCEL MAP NO. 36207 — P. M. B. 236 / 97 - 100

APN: 488-330-040
ZONING: L1
BUSINESS PARK / LIGHT INDUSTRIAL
USE: COM, IND MFG/PROCESSING

APN: 488-330-035
ZONING: COMMERCIAL
USE: VACANT LAND

APN: 488-330-037
ZONING: COMMERCIAL
USE: VACANT LAND

11.00' WIDE TRAIL EASEMENT DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP NO. 36207, P.M.B. 236 / 97-100

EUCALYPTUS AVENUE — ℄ LOT "A"

ALDI ℄ PLACE

EXISTING 40' DRWY.

EXISTING ADOBE DRWY.

TRAIL EASEMENT

PROPOSED (2) VACATION (4)
PROPOSED DRAINAGE & MAINTENANCE EASEMENT (6)
PROPOSED TRAIL EASEMENT 11' (3)

STREET — ℄ QUINCY

QUINCY CHANNEL

APN: 488-330-051
ZONING: M-P
USE: VACANT LAND
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS

P. M. B. 244 / 10 - 18

PARCEL MAP NO. 35678

18.00' WIDE TRAIL EASEMENT DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP NO. 35678, P.M.B. 244 / 10-18

APN: 488-340-012
EXISTING PARCEL 7
OWNER: CHARDONRATANA SUTHEP & VENA
ADDRESS: NO ADDRESS
LOT 4, BLOCK 54

APN: 488-340-002
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 3, BLOCK 54

APN: 488-340-003
EXISTING PARCEL 8
OWNER: BC MV LAND LLC
ADDRESS: 28855 FIR AVE.
LOT 2, BLOCK 54

APN: 488-340-004
EXISTING PARCEL 8
OWNER: BC MV LAND LLC
ADDRESS: 28855 FIR AVE.
LOT 1, BLOCK 54

BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY M.B. 11 / 10, S.B. COUNTY

APN: 488-340-011
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 5, BLOCK 54

APN: 488-340-010
EXISTING PARCEL 6
OWNER: MV 2778 LLC
ADDRESS: NO ADDRESS
LOT 6, BLOCK 54

APN: 488-340-009
EXISTING PARCEL 5
OWNER: MV EUCALYPTUS LLC
ADDRESS: NO ADDRESS
LOT 7, BLOCK 54

APN: 488-340-007
EXISTING PARCEL 2
OWNER: HALL ADAM & MICHELLE
12925 REDLANDS AVE
PORTION OF LOT 8

BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY M.B. 11 / 10, S.B. COUNTY

SEE SURVEYOR'S NOTES NO. 2

PARCEL (1)
3,167,134 SQ. FT. (NET)
72.71 ACRES (NET)

BUILDING
1,263,271 SQ. FT.

TRUCK COURT / LOADING AREA SETBACK FROM NEAREST RESIDENTIAL LOT LINE

20' BLDG SETBACK

250' MEASURED FROM EXISTING TRAIL EASEMENT

TRUCK COURT / LOADING AREA SETBACK

℄ ENCELIA — LOT "C"

℄ ESSEN LANE

℄ MOZART WAY

℄ AVENUE

℄ SHUBERT ST.

APN: 478-400-041
ZONING: RA2 / PUD
USE: RESIDENTIAL
TRACT NO. 31424
M. B. 410 / 55 - 59

APN: 478-400-016
APN: 478-400-017
APN: 478-400-045
APN: 478-401-001
APN: 478-301-010
APN: 478-301-009
APN: 478-301-001
APN: 478-303-012
APN: 478-303-001
APN: 478-303-011
APN: 478-020-035
ZONING: RA2
USE: VACANT LAND

TENNIS COURT

TRACT NO. 24721
M. B. 227 / 45 - 52

TENTATIVE PARCEL MAP NO. 37836
CITY RECORD NUMBER: PEN19-0193

SEE SHEET 2

Last Update: 5/12/22
G:\3828\TPM\3828_TPM-OPT1.dwg

Attachment: Tentative Parcel Map 37836 (6209 : Moreno Valley Trade Center(Park))

SHEET 2 OF 2
SHEET SIZE: 36" x 48"

TENTATIVE PARCEL MAP NO. 37836

IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA
BEING A SUBDIVISION OF LOTS 1 THROUGH 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

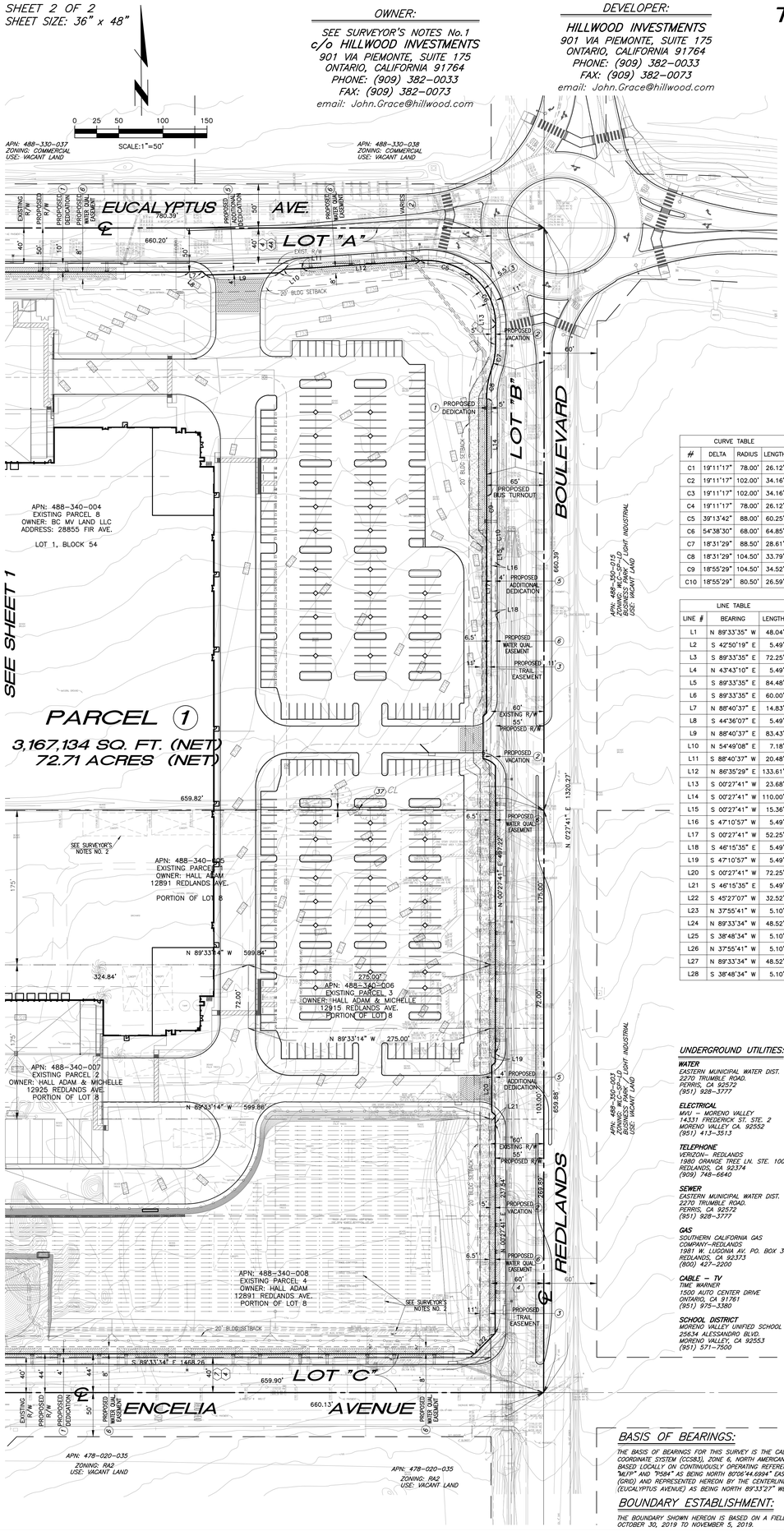
OPTION 1

OWNER:
SEE SURVEYOR'S NOTES No.1
c/o HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

DEVELOPER:
HILLWOOD INVESTMENTS
901 VIA PIEMONTE, SUITE 175
ONTARIO, CALIFORNIA 91764
PHONE: (909) 382-0033
FAX: (909) 382-0073
email: John.Grace@hillwood.com

SURVEYOR / PREPARED BY:
THIENES ENGINEERING, INC.
14349 FIRESTONE BOULEVARD
LA MIRADA, CALIFORNIA 90638
PHONE: (714) 521-4811
FAX: (714) 521-4173
email: Sarah@thieneseng.com

ARCHITECT:
HPA
18831 BARDEEN AVE., SUITE 100
IRVINE, CALIFORNIA 92612
PHONE: (949) 863-1770
FAX: (949) 863-0851
Jamie@uparchs.com



CURVE TABLE			
#	DELTA	RADIUS	LENGTH
C1	19°11'17"	78.00'	26.12'
C2	19°11'17"	102.00'	34.16'
C3	19°11'17"	102.00'	34.16'
C4	19°11'17"	78.00'	26.12'
C5	39°13'42"	88.00'	60.25'
C6	54°38'30"	68.00'	64.85'
C7	18°31'29"	88.50'	28.61'
C8	18°31'29"	104.50'	33.79'
C9	18°55'29"	104.50'	34.52'
C10	18°55'29"	80.50'	26.59'

LINE TABLE		
LINE #	BEARING	LENGTH
L1	N 89°33'35" W	48.04'
L2	S 42°50'19" E	5.49'
L3	S 89°33'35" E	72.25'
L4	N 43°43'10" E	5.49'
L5	S 89°33'35" E	84.48'
L6	S 89°33'35" E	60.00'
L7	N 88°40'37" E	14.83'
L8	S 44°36'07" E	5.49'
L9	N 88°40'37" E	83.43'
L10	N 54°49'08" E	7.18'
L11	S 88°40'37" W	20.48'
L12	N 86°35'29" E	133.61'
L13	S 00°27'41" W	23.68'
L14	S 00°27'41" W	110.00'
L15	S 00°27'41" W	15.36'
L16	S 47°10'57" W	5.49'
L17	S 00°27'41" W	52.25'
L18	S 46°15'35" E	5.49'
L19	S 47°10'57" W	5.49'
L20	S 00°27'41" W	72.25'
L21	S 46°15'35" E	5.49'
L22	S 45°27'07" W	32.52'
L23	N 37°55'41" W	5.10'
L24	N 89°33'34" W	48.52'
L25	S 38°48'34" W	5.10'
L26	N 37°55'41" W	5.10'
L27	N 89°33'34" W	48.52'
L28	S 38°48'34" W	5.10'

EXISTING APN'S AND USE:

APN: 488-340-005	(EXISTING PARCEL 1)	NURSERY FARM
APN: 488-340-007	(EXISTING PARCEL 2)	NURSERY FARM
APN: 488-340-006	(EXISTING PARCEL 3)	EXISTING HOUSE
APN: 488-340-008	(EXISTING PARCEL 4)	NURSERY FARM
APN: 488-340-009	(EXISTING PARCEL 5)	VACANT LAND
APN: 488-340-002	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-010	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-011	(EXISTING PARCEL 6)	VACANT LAND
APN: 488-340-012	(EXISTING PARCEL 7)	VACANT LAND
APN: 488-340-003	(EXISTING PARCEL 8)	VACANT LAND
APN: 488-340-004	(EXISTING PARCEL 8)	VACANT LAND

PROPOSED EASEMENTS, DEDICATIONS AND VACATIONS:

1. INDICATES DEDICATIONS FOR STREET AND HIGHWAY PURPOSES TO THE CITY OF MORENO VALLEY TO BE DEDICATED ON PARCEL MAP.
2. INDICATES PORTIONS OF REDLANDS BOULEVARD, EUCALYPTUS AVENUE AND QUINCY STREET TO BE VACATED ON PARCEL MAP.
3. INDICATES EASEMENTS FOR TRAIL PURPOSES TO BE DEDICATED TO THE MORENO VALLEY COMMUNITY SERVICES DISTRICT ON PARCEL MAP.
4. INDICATES AN EASEMENT FOR DRAINAGE AND MAINTENANCE PURPOSES (QUINCY CHANNEL) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.
5. INDICATED ADDITIONAL RIGHT-OF-WAY FOR PEDESTRIAN ACCESS ACROSS THE PROPOSED DRIVEWAYS TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.
6. INDICATES EASEMENTS FOR LID WATER QUALITY IMPROVEMENT PURPOSES (BMP) TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP.

TABULATION:

SITE AREA	
Gross Area	3,486,325 s.f.
In s.f.	
In acres	80.04
Net Area	
In s.f.:	3,167,134 s.f.
In acres	72.71 ac
BUILDING AREA	
Office	20,000 s.f.
Warehouse	1,243,271 s.f.
Total	1,263,271 s.f.
COVERAGE	39.9%
AUTO PARKING REQUIRED	
Office: 1/250 s.f.	80 stalls
Whse.: 1st 20K @ 1/1,000 s.f.	20 stalls
2nd 20K @ 1/2,000 s.f.	10 stalls
above 40K @ 1/4,000 s.f.	301 stalls
TOTAL	411 stalls
AUTO PARKING PROVIDED	
Standard (9'x 18')	394 stalls
ADA Van (12'x 18')	4 stalls
ADA std (9' x 18')	6 stalls
EV ADA Van (12'x 18')	1 stalls
EV ADA Std (9' x 18')	2 stalls
EV std (9' x 18')	47 stalls
Ambulatory (11' x 18')	2 stalls
CAV std (9' x 18')	65 stalls
Total	521 stalls
TRAILER PARKING REQUIRED	
1 per dock door:	214 stalls
TRAILER PARKING PROVIDED	
Trailer (14'x 50')	226 stalls
MAXIMUM FLOOR AREA RATIO	
FAR - to be verified	
ZONING ORDINACE FOR CITY	
Existing - Residential agriculture 2 dwellings (RA2)	
Proposed - Industrial (I)	
SETBACK	
Building: Landscape:	
Front /Street- 20' : 10'	
Interior side - 3'	
Rear - 3'	
Note: when any industrial district abuts a property in any residential, a min. bldg. setback equal to the bldg. height, but not less than 20' shall be required from such residential district. Further, the 10' of such setback nearest the district boundary line shall be landscape.	

LEGEND:

EXIST. FIRE HYDRANT	PROP. WATER LINE
EXIST. WATER METER	PROP. SEWER LINE
EXIST. WATER VALVE	PROP. STORM DRAIN PIPE
EXIST. GAS VALVE	EXIST. BOUNDARY
GUY WIRE/DEADMAN	EXIST. PROPERTY LINE
EXIST. POWER POLE	CONCRETE
EXIST. SIGN	AC PAVEMENT
TREE	TRAIL
EXIST. TELEPHONE MANHOLE	
EXIST. GRADE ELEVATION	
EXIST. EDGE OF A.C. PAVEMENT	
EXIST. CURB AND GUTTER	
EXIST. SANITARY SEWER	APN — ASSESSOR'S PARCEL NUMBER; C/L — CENTERLINE; C.F. — CURB FACE; CONC. — CONCRETE; 0.00 — EXISTING ELEVATION; E.P. — EDGE OF PAVEMENT; EXIST. — EXISTING; F.H. — FIRE HYDRANT; F.G. — FINISH GRADE; F.S. — FINISH SURFACE; F.F. — FINISH FLOOR; F.L. — FLOW LINE; H.C. — HANDICAP; M.H. — MANHOLE; N.G. — NATURAL GRADE; P.P. — POWER POLE; R/W — RIGHT OF WAY; R — RATE OF GRADE
EXIST. GAS LINE	
EXIST. WATER LINE	
EXIST. CONTOUR	
PROP R/W AND PL	

UNDERGROUND UTILITIES:

WATER
EASTERN MUNICIPAL WATER DIST.
2270 TRUMBLE ROAD.
PERRIS, CA 92572
(951) 928-3777

ELECTRICAL
MVU – MORENO VALLEY
14331 FREDERICK ST. STE. 2
MORENO VALLEY CA. 92552
(951) 413-3513

TELEPHONE
VERIZON– REDLANDS
1980 ORANGE TREE LN. STE. 100
REDLANDS, CA 92374
(909) 748-6640

SEWER
EASTERN MUNICIPAL WATER DIST.
2270 TRUMBLE ROAD.
PERRIS, CA 92572
(951) 928-3777

GAS
SOUTHERN CALIFORNIA GAS COMPANY–REDLANDS
1981 W. LUGONIA AV. PO. BOX 3003
REDLANDS, CA 92373
(800) 427-2200

CABLE – TV
TIME WARNER
1500 AUTO CENTER DRIVE
ONTARIO, CA 91761
(951) 975-3380

SCHOOL DISTRICT
MORENO VALLEY UNIFIED SCHOOL DIST.
25634 ALESSANDRO BLVD.
MORENO VALLEY, CA 92553
(951) 571-7500

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 6, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "MLFP" AND "P584" AS BEING NORTH 80°06'44.6994" EAST (BASIS OF BEARINGS) (GRID) AND REPRESENTED HEREON BY THE CENTERLINE OF ENCELIA AVENUE (EUCALYPTUS AVENUE) AS BEING NORTH 89°33'27" WEST. (2010.0 EPOCH)

BOUNDARY ESTABLISHMENT:

THE BOUNDARY SHOWN HEREON IS BASED ON A FIELD SURVEY PERFORMED OCTOBER 30, 2019 TO NOVEMBER 5, 2019.

EXISTING EASEMENTS:

THE FOLLOWING EASEMENTS AND MATTERS AS DISCLOSED IN FIRST AMERICAN TITLE COMPANY PRELIMINARY TITLE REPORT ORDER NUMBER: NCS-970708-SD DATED AS OF JULY 31, 2019.

(NO.) INDICATES ITEM NUMBER PER EXCEPTIONS TO COVERAGE OF ABOVE PRELIMINARY TITLE REPORT.

(1–3) TAXES, ASSESSMENTS AND LIEN OF SUPPLEMENTAL OR ESCAPED ASSESSMENTS, IF ANY.

(4) 4. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4A))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(5) 5. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(7) 7. THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED SEPTEMBER 30, 1982 AS INSTRUMENT NO. 169330 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID ACCEPTANCE OF OFFER ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] PLOTTED HEREON AS (7))

(14) 14. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(15) 15. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(21) 21. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

OPTION 1 AREA SUMMARY:

PROJECT AREA	3,486,325 SQ. FT. (GROSS) 80.04 ACRES (GROSS)
LOT "A" EUCALYPTUS AVE. (FULL WIDTH DEDICATION)	129,412 SQ. FT. 2.97 ACRES
LOT "B" REDLANDS BLVD. (FULL WIDTH DEDICATION)	75,651 SQ. FT. 1.74 ACRES
LOT "C" ENCELIA AVE. (FULL WIDTH DEDICATION)	114,128 SQ. FT. 2.62 ACRES
PARCEL 1: (BUILDING)	3,167,134 SQ. FT. (NET) 72.71 ACRES (NET)

THE FOLLOWING AREAS ARE INCLUDED IN PARCEL 1 ABOVE.

QUINCY ST. VACATION	200,598 SQ. FT. 4.61 ACRES
REDLANDS BLVD. VACATION	4,329 SQ. FT. 0.10 ACRES
EUCALYPTUS AVE. VACATION	130 SQ. FT. 0.00 ACRES
TOTAL AREA VACATED	205,057 SQ. FT. 4.71 ACRES

AREAS INCLUDED IN PARCEL 1:

TRAIL EASEMENT ALONG REDLANDS BOULEVARD AND TRAIL EASEMENT / DRAINAGE EASEMENT ALONG QUINCY CHANNEL ARE INCLUDED IN PARCEL 1.

SURVEYOR'S NOTES:

1. TITLE TO SAID ESTATE OR INTEREST AT THE DATE HEREOF IS VESTED IN:
ADAM HALL, A MARRIED MAN AS HIS SOLE AND SEPARATE PROPERTY AS TO EXISTING PARCEL 1.
ADAM HALL AND MICHELLE HALL, HUSBAND AND WIFE AS JOINT TENANTS AS TO EXISTING PARCELS 2 AND 3.
ROSALYNE J. HALL, A SINGLE WOMAN AND WILLIAM KINCANNON, AN UNMARRIED MAN AS JOINT TENANTS AS TO EXISTING PARCEL 4.
MV EUCALYPTUS, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 5.
MV 2778, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 6.
SUTHEP CHAROONRATANA AND VENA CHAROONRATANA, TRUSTEES, "THE SUTHEP AND VENA CHAROONRATANA FAMILY TRUST OF 2007," DATED DECEMBER 28, 2007 AS THEIR COMMUNITY PROPERTY AS TO EXISTING PARCEL 7.
BC MV LAND, LLC, A DELAWARE LIMITED LIABILITY COMPANY AS TO EXISTING PARCEL 8.
2. SITE IS VACANT UNDEVELOPED LAND. (6 EXISTING STRUCTURES, 18 CANOPIES AND 5 STORAGE CONTAINERS ARE NEAR THE SOUTHEAST CORNER OF THE SUBJECT PROPERTY AND ARE TO BE REMOVED)
3. THIS MAP INCLUDES THE ENTIRE CONTIGUOUS OWNERSHIP OF THE LAND.
4. THE EXISTING ZONING DESIGNATION IS RA2 – RESIDENTIAL AGRICULTURE 2 DU/AC.
5. THE PROPOSED ZONING DESIGNATION IS I – INDUSTRIAL / BUSINESS PARK.
6. THE EXISTING GENERAL PLAN DESIGNATION IS R2–RESIDENTIAL MAX. 2 DU/AC.
7. THE PROPOSED GENERAL PLAN DESIGNATION IS BP–BUSINESS PARK/LIGHT INDUSTRIAL.
8. SUBJECT SITE IS NOT IN A FLOOD HAZARD AND IS IN ZONE "X"–SHADED.
9. THERE IS NO OFFSITE STORM WATER RUNOFF ENTERING THIS SITE THAT IS AFFECTED BY THIS DEVELOPMENT.
10. ALL DRIVEWAYS TO BE BUILT PER CITY STD. NO. MVSI–112C–0.
11. TRASH ENCLOSURES SHALL BE PER CITY STD. MVSI–660–0.
12. 4' WIDE ADDITIONAL RIGHT–OF–WAY TO BE DEDICATED TO THE CITY OF MORENO VALLEY ON PARCEL MAP FOR ADA PATH OF TRAVEL OVER PROPOSED DRIVEWAYS SHOWN HEREON.

EXISTING EASEMENTS (CONTINUED):

(22) 22. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(28) 28. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO; RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(29) 29. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

(30) 30. AN EASEMENT FOR ACCESS EASEMENT FOR THE CONSTRUCTION OF STORM DRAINAGE FACILITIES, INCLUDING INGRESS AND EGRESS FOR MAINTENANCE PURPOSES AND INCIDENTAL PURPOSES, RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0094598 OF OFFICIAL RECORDS.
IN FAVOR OF: PROLOGIS, A MARYLAND REAL ESTATE INVESTMENT TRUST
AFFECTS: AS DESCRIBED THEREIN
(SAID EASEMENT PLOTTED HEREON AS (30))

(31) 31. AN OFFER OF DEDICATION FOR PERPETUAL EASEMENT AND RIGHT OF WAY AND INCIDENTAL PURPOSES,
RECORDED MARCH 10, 2016 AS INSTRUMENT NO. 2016–0095115 OF OFFICIAL RECORDS.
TO: CITY OF MORENO VALLEY, A MUNICIPAL CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (31))

(36) 36. AN EASEMENT SHOWN OR DEDICATED ON THE MAP OF MAP NO. 1 BEAR VALLEY AND ALESSANDRO DEVELOPMENT CO;
RECORDED NOVEMBER 03, 1890 AND ON FILE IN BOOK 11, PAGE 10, OF TRACT MAPS.
FOR: RIGHT OF WAY, PIPES, CONDUITS AND INCIDENTAL PURPOSES.
THE EFFECT OF A RESOLUTION BY THE RIVERSIDE COUNTY BOARD OF SUPERVISORS ACCEPTING SAID OFFER OF DEDICATION FOR THE PURPOSE OF VESTING TITLE IN THE COUNTY OF RIVERSIDE ON BEHALF OF THE PUBLIC, BUT NOT AS PART OF THE COUNTY – MAINTAINED ROAD SYSTEM, RECORDED JANUARY 30, 1990 AS INSTRUMENT NO. 37909 OF OFFICIAL RECORDS OF RIVERSIDE COUNTY, CALIFORNIA.
(SAID OFFERS OF DEDICATION BEING 30' HALFWIDTH ALONG QUINCY STREET, 40' HALFWIDTH ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE], 40' HALFWIDTH ALONG EUCALYPTUS AVENUE [NOW ENCELIA AVENUE] AND 60' HALFWIDTH ALONG REDLANDS BOULEVARD PLOTTED HEREON AS (4))
(SAID ACCEPTANCE OF OFFER ALONG FIR AVENUE [NOW EUCALYPTUS AVENUE] PLOTTED HEREON AS (4A))

(37) 37. AN EASEMENT FOR POLE LINES, CONDUITS AND INCIDENTAL PURPOSES, RECORDED JANUARY 03, 1938 IN BOOK 354, PAGE 495 OF OFFICIAL RECORDS.
IN FAVOR OF: NEVADA–CALIFORNIA ELECTRIC CORPORATION
(SAID EASEMENT PLOTTED HEREON AS (37) AND TO BE QUITCLAIMED)

(38) 38. AN EASEMENT FOR CONDUITS, AND RIGHTS AND INCIDENTAL PURPOSES, RECORDED MARCH 04, 1955 IN BOOK 1702, PAGE 559 OF OFFICIAL RECORDS.
IN FAVOR OF: EASTERN MUNICIPAL WATER DISTRICT
AFFECTS: AS DESCRIBED THEREIN
AND AS SET OUT IN MEMO OF AGREEMENT AND IN SUPPLEMENTAL AGREEMENT, RECORDED: MARCH 04, 1955 IN BOOK 1702, PAGES 467 AND 552, RESPECTIVELY, OFFICIAL RECORDS, AND BY DEED RECORDED NOVEMBER 12, 1969 AS INSTRUMENT NO. 115832, OFFICIAL RECORDS.
THE LOCATION OF THE EASEMENT CANNOT BE DETERMINED FROM RECORD INFORMATION.
(SAID EASEMENT IS NOT PLOTTABLE FROM RECORD INFORMATION)

EXISTING LEGAL DESCRIPTIONS:

EXISTING PARCEL 1: APN 488–340–005–0

THE NORTH 350' OF LOT 8 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE(S) 10, OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY.

EXCEPTING THEREFROM THE SOUTH 175' OF SAID NORTH 350'.

EXISTING PARCEL 2: APN 488–340–007–2

THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 72 FEET OF THE EAST 275 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

EXISTING PARCEL 3: APN 488–340–006–1

THE NORTH 72 FEET OF THE EAST 275 FEET OF THE SOUTH 175 FEET OF THE NORTH 350 FEET OF LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THAT PORTION INCLUDED WITHIN REDLANDS BOULEVARD.

EXISTING PARCEL 4: APN 488–340–008–3

LOT 8 IN BLOCK 54, AS SHOWN BY MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP ON FILE IN BOOK 11, PAGE 10 OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA;

EXCEPTING THEREFROM THE NORTH 350 FEET OF SAID LAND;

ALSO EXCEPTING THEREFROM THAT PORTION INCLUDED IN REDLANDS BOULEVARD.

PARCEL 5: APN 488–340–009–4

LOT 7 IN BLOCK 54 OF MAP NO. 1 OF BEAR VALLEY AND ALESSANDRO DEVELOPMENT COMPANY, AS SHOWN BY MAP RECORDED IN BOOK 11, PAGE 10, OF MAPS, RECORDS OF SAN BERNARDINO COUNTY, CALIFORNIA.

EXISTING PARCEL 6: APNS 488–340–002–7, 488–340–010–4 AND 488–340–011–5

*LOTS 3, 5 AND 6 IN BLOCK 54 OF MAP NO. 1, BEAR VALLEY AND ALLESANDRO DEVELOPMENT COMPANY, IN THE CITY OF MORENO VALLEY, COUNTY OF RIVERSIDE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 11, PAGE 10 OF MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAN BERNARDINO COUNTY R

From: Tammie Ferem
Sent: Thursday, October 15, 2020 8:00 PM
To: Mike Lee ; michelep@moval; Patty Nevins ; vxstieng@moval.org; Victoria Baca ; David Martinez ; Ulises Cabrera ; carkat@moval.org
Subject: Apposition of the rezoning for the Moreno Valley Center.

Warning: External Email – Watch for Email Red Flags!

https://ceqanet.opr.ca.gov/2020039038/2

Re: The above Property SCH#

We attended a meeting that Councilman David Marquez informed us of on September 19, 2020 letting us know what was intended for the land directly in our backyard.
We are vehemently opposed to the changing of the zoning of the land for this project from Residential or General Land Use of the 71.85 acre site to Light Industrial.
Which is an extremely bogus statement because a building of 1,332,380 square feet is not Light industrial but rather Major Industrial.
We live in the subdivision directly South and across the street from where this Light Industrial Building is to be built. This is literally in our backyard!!! We moved here in 1994 when Kaufman and Broad developed homes in the area. We were always told that another subdivision of homes would be going in some day across the street not an industrial building.

We are opposed to the noise that a building of this kind would create possibly during all hours of the night as does the Paper Factory down on Eucalyptus.
We oppose the massive amount of traffic that it would bring to our quiet neighborhood, jeopardizing the children that play on our streets.
We oppose the taking of our beautiful view of the mountains, which we moved here for.
We are most concerned about what this change would do to the property value of our home here in Rancho Bellago California.

Please find another area for your "Light Industrial Building".

Tammie and John Ferem
28810 Strauss Lane
Moreno Valley, Ca. 92555

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

Nelly Meza
28604 Strauss Ln.
Moreno Valley, CA 92555
951.203.5034
Nelly_meza126@yahoo.com

September 23, 2020

Economic Development Team
14177 Frederick St.
Moreno Valley, CA 92553

Dear Council Members and Economic Development Team:

My name is Nelly Meza, and I am a member of Valley Springs Homeowners Association. I am writing today to ask you reconsider the proposal for the Moreno Valley Trade Center. I ask that you deny any request to rezone the property and keep as residential.

The impact this project will have on my community and family are substantial. So many health risks, such as respiratory health, increase in cancer and cardiovascular health, neurological health, and mental health are upon the several risk factors we will be faced with if this project moves forward. The chemicals in building products are an overlooked harm and are beyond the control of the community it impacts. These materials contain chemical toxicants that are harmful to human health. I am in fear for the wellbeing of my community and family. It is your responsibility to help protect everyone's health.

As we move into the new normal of having classroom within our homes, it has been proven that children with high background noise perform lower. This project is feet away from my front door, the noise will impact the education of the three students I have at home. The noise from the commercial buildings On Eucalyptus and Redlands Blvd are already impactful to our wellbeing. We are forced to keep windows shut in order to have peace, otherwise it feels as we are actively involved in loading/unloading commercial trucks.

Thank you in advance for considering our request. I know that with your help we can prevent the proposal from moving forward.

Sincerely,

Nelly Meza

References:
https://www.env-health.org

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: James Hagen <baxterdulce@gmail.com>
Sent: Wednesday, September 23, 2020 8:50 AM
To: Mike Lee; Michele Patterson; Patty Nevins; yxstien@moval.org; Victoria Baca; Dr. Carla J. Thornton; ulisese@moval.org; Dawn DuRocher
Subject: No Warehouse up against residential property

Warning: External Email – Watch for Email Red Flags!

I am a homeowner in the Rancho Belago area.

It has come to my attention that land at Redlands/Eucalyptus is up for a zone change for purposes of the proposed Moreno Valley Trade Center. I want the zoning to remain residential. It has also come to my attention Adam's Nursery, who stands to make a lot of money from the sale of his land to the developer, is making political contributions to you for your support of the zone change for the proposed Moreno Valley Trade Center. This is not okay.

I have lived in the Rancho Belago area for many years. I chose this newer upscale area Moreno Valley for its new stores, shopping centers and homes – not for a potential zone changing and warehouses. I am not the only homeowner upset and disappointed in what is going on in our community.

Please reconsider your position on the zone change. Please allow the land to remain residential and protect our community. No warehouses

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Joe Bunker
Sent: Wednesday, September 23, 2020 8:52 AM
To: Mike Lee ; Michele Patterson ; Patty Nevins
Subject: Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Dear Community Development Team,

I am a 45 year resident of Moreno Valley currently living near this proposed project. Why would you even consider this project and the negative impact it will have on us as residents on a property currently zoned like ours and right next door? Doesn't Moreno Valley have enough warehouses already? As it is we have to live with the World Logistics Center coming at us. I thought your job was to oversee development in our community for the good of everyone?

Thank you in advance for your response,

Joe Bunker

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Denny Bunker <dennybnkr@gmail.com>
Sent: Monday, September 21, 2020 6:31 PM
To: yxstieng@moval.org
Cc: Victoria Baca; Dr. Carla J. Thornton; David Martinez; Ulises Cabrera; Mike Lee; Michele Patterson; Patty Nevins; Janae Bunker
Subject: Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Mr. Gutierrez,
I have been a resident of Moreno Valley since 1980 and I currently live directly across the street from the site of this proposed project.
I-have lived in this location for approximately 14 years and have seen a lot of changes in this area during that time.
My question to you is, how would you like to have a giant concrete building built across the street from your house.
Not only does it block your entire view, now your family has to listen to trucks driving in and out all day and night, as well as breathing in all of the exhaust from the trucks.
Does that sound like a good environment for your kids to grow up in? Of course it doesn't.
I regret to say that I voted for you in the last election. I would NOT have had I known that you would later sell out me and everyone else that lives in this area.
It should be illegal for you and your city council members to make a decision like this without having to be accountable to the people that it really affects.
Even though it may not be illegal, it certainly is shameful. You and anyone else that wants this project will not be getting my support in the future.
This project will not make this city better. It will bring only low paying jobs, pollution, and unwanted traffic.
Please respond and let me know why you think this is good for the City of Moreno Valley.

Denny.
951-662-5115

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Dawn M DuRocher
Sent: Wednesday, October 21, 2020 10:31 AM
To: Mike Lee ; Patty Nevins ; Michele Patterson ; Victoria Baca ; yxstien@moval.org; Dr. Carla J. Thornton ; ulisese@moval.org
Subject: Proposed Zone Change for the Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

I am a homeowner in the Rancho Belago area. I live in the neighborhood across from the proposed zone change for the Moreno Valley Trade Center.

I discovered the land at Redlands/Encelia/Eucalyptus is up for a zone change for purposes of the proposed Moreno Valley Trade Center. I also discovered Adam's Nursery, who stands to make a lot of money from the sale of its land to the developer, is making political contributions to you for your support of the zone change for the proposed Moreno Valley Trade Center. I am appalled by the proposed zone change to accommodate even more warehouses.

I am against the proposed zone change. As a resident of this area, I am very concerned. This is my home. This is my community. I love my neighborhood. This is where I plan to live for many years to come. Don't let money talk. Think of our community. Stop the zone change. I fear this will have a negative impact, destroy our neighborhood's peace and tranquility, and greatly decrease the value of our homes.

I respectfully ask that you reconsider your position on the zone change. Please allow the land to remain residential and protect our community.

Dawn DuRocher

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Charles Ober
Sent: Thursday, September 24, 2020 3:04 PM
To: Patty Nevins
Subject: Zoning Changes

Warning: External Email – Watch for Email Red Flags!

Mr. Mancha

I am writing you as our community development director, regarding a proposed zone change for the property at the southwest corner of Eucalyptus Ave and Redlands Blvd.

I understand that there is a proposal to change the residential zoning to industrial to permit the building of a 1,332,380 square foot warehouse.

I am a resident and home owner of district 3 Moreno Valley, I live less then a mile from this proposed project.

I want to make sure that you understand my position on this proposed zoning change. **I AM 100% OPPOSED TO THIS CHANGE AND PROJECT.**

Let me be clear,, at that intersection, across the street they are already building another massive industrial complex. Also a few feet down, they will eventually have the World Logistic Center. **WE DO NOT NEED MORE CONGESTION, POLLUTION AND TRAFFIC!**

I have heard from neighbors that live near Solaris Paper; that apparently the city did not perform due diligence to protect the local residence that live near them. I am told that the noise from

the paper shredding machines disturb their sleep at night. If you have not heard from them, I am certain you will soon.

Finally, I know the city is trying to develop business and jobs for the City of Moreno Valley and that is great; BUT warehouses bring a low density of jobs per square foot of building. We need more businesses that bring MORE jobs.

Do not permit the proposed zone change.

Charles A. Ober
caober4822@yahoo.com

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

-------- Original message --------
From: "Dr. Yxstian A. Gutierrez" <yxstiang@moval.org>
Date: 9/24/20 9:01 PM (GMT-08:00)
To: Charles Ober <caober4822@yahoo.com>
Cc: Mike Lee <mikel@moval.org>
Subject: Re: Zoning Changes

Good Evening Charles,

First, thank you for reaching out to me and of course for your support in the past elections. I appreciate you voicing your concerns and letting me know how you feel about this proposed project.

To clarify, no zone change has been approved nor the project.

The project proposal has not come to planning commission which would be the first step. If the item is denied or approved by the Planning Commission, either party can appeal to the City Council where they would hear the item. I don't anticipate the Planning Commission hearing this item until March or so. I would also encourage residents to email the staff and they provide an initial recommendation to the planning commission:

Mike Lee mikel@moval.org
Marshall Eyerman Marshalle@moval.org and Jackiem@moval.org

I have CC'd Mike Lee to this email so he can be aware of your concerns.

Again, I do appreciate you reaching out to me and voicing your concerns. If it does go to Planning Commission, I would encourage you to keep in contact with me at that time but also voice your concerns to the Planning Commissioners as well.

Kindest regards,

Yxstian

Dr. Yxstian Gutierrez
Mayor
City of Moreno Valley
Phone: 951.413.3008
Email: yxstiang@moval.org

Dr. Yxstian A. Gutierrez
Mayor
City Council
City of Moreno Valley
p: 951.413.3008 | e: yxstiang@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

On Sep 24, 2020, at 3:21 PM, Charles Ober <caober4822@yahoo.com> wrote:

Warning: External Email – Watch for Email Red Flags!

Mayor Gutierrez

I am writing you as our mayor, regarding a proposed zone change for the property at the southwest corner of Eucalyptus Ave and Redlands Blvd. In previous elections I have voted for you, in the belief as our mayor the city has been very well run; but the warehouse issues are another matter.

I understand that there is a proposal to change the residential zoning

to industrial to permit the building of a 1,332,380 square foot warehouse.

I am a resident and home owner of district 3 Moreno Valley, I live less then a mile from this proposed project.

I want to make sure that you understand my position on this proposed zoning change. **I AM 100% OPPOSED TO THIS CHANGE AND PROJECT.**

Let me be clear,, at that intersection, across the street they are already building another massive industrial complex. Also a few feet down, they will eventually have the World Logistic Center. **WE DO NOT NEED MORE CONGESTION, POLLUTION AND TRAFFIC!**

I have heard from neighbors that live near Solaris Paper; that apparently the city did not perform due diligence to protect the local residence that live near them. I am told that the noise from the paper shredding machines disturb their sleep at night. If you have not heard from them, I am certain you will soon.

Finally, I know the city is trying to develop business and jobs for the City of Moreno Valley and that is great; BUT warehouses bring a low density of jobs per square foot of building.
We need more businesses that bring MORE jobs.

Do not permit the proposed zone change.

Charles A. Ober
caober4822@yahoo.com

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Crys Tom <4tomboys@gmail.com>
Sent: Friday, December 4, 2020 8:52 PM
To: Gabriel Diaz
Subject: Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

To Whom It May Concern,

The East side of Moreno Valley has already witnessed its share of warehouses and its purported beautification of our streets—the Rancho Belago signs and the signal lights are lovely. Aldi, Sketchers, Solaris Paper, The World Logistics Center. Now you want to add The Moreno Valley Trade Center right across the street from our homes? So we won't need landscape lighting is that it? Or so we can eat at these pop up food vendors that will pitch their tents in the field across the street all hours of the night? Funny how these make shift eateries can peddle their food but established restaurants that actually pay property taxes are forced to abide by the new Covid standards. The new apartment complex is going to flood our streets with traffic on Moreno Beach Drive. Now you want to flood it on Redlands Blvd with not only cars, but diesels as well? When will it end? Why don't you spare us and demolish all our homes and make the whole East side a big warehouse district like Los Angeles. Because we all know how *beautiful* that area is. I have been told many times by different school bus drivers how quiet our neighborhood is. I guess those days are gone. You are leaving the residents of my once quiet and peaceful area no choice but to sell our homes and move. I can't see paying $9500 annually in property tax to live next to a bunch of warehouses. Very disappointed. Rezoning is not what this area needs.

Attachment: Planning Commission - Public Comments Packet (6209 : Moreno Valley Trade Center/Park)

From: Catherine Kelley <1970.cath.kell@gmail.com>
Sent: Sunday, November 21, 2021 9:22 PM
To: Gabriel Diaz
Subject: please no more warehouses!

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am writing as a long-time resident of Moreno Valley. My family has lived here since 1972, and we have seen gargantuan growth since then and the decimation of beautiful fields and orange groves with warehouses and strip malls. Please have sympathy for those of us who want to continue living here. Please do not force more warehouses on us and please consider stopping most building projects. Don't we have enough buildings already?
I would also like to ask that no more housing tracts be built. The city is already too crowded and our fields are home to wild animals who also need to live.
Thank you.
Catherine Kelley

Virus-free. www.avast.com

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: TOM HYATT <cdftom@aol.com>
Sent: Saturday, June 11, 2022 7:36 PM
To: Gabriel Diaz; Sean P. Kelleher
Subject: MVTC and Truck Stop

Warning: External Email – Watch for Email Red Flags!

This is to be shared at the council meeting if appropriate:

As an affected resident on Wexford Avenue with a family, I am opposed to this horrible project(s). Zoning shenanigans by the City enabled this bad project near our residential neighborhood that was zoned for 1/2 acre homes. Diesel pollution and truck traffic will be horrible. The round about was designed ooorly to accommodate so much truck traffic and was constructed way too small. I see trucks hopping the curb all the time to navigate the round about. It was done on a cheap budget and will be destroyed before you know it. The proposed changes the MVTC plan to eliminate traffic on to Encelia do not address the pollution!

Thank you,

Tom Hyatt
Wexford Avenue resident

Sent from my iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Walter Fus <walterfus@verizon.net>
Sent: Saturday, June 11, 2022 8:25 PM
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher
Cc: City Clerk
Subject: Moreno Valley Trade Center (MVTC) warehouse

Warning: External Email – Watch for Email Red Flags!

To whom it may concern:
I have been a resident of Moreno Valley since 1977. I served as a pilot at March and Norton Air Force Bases until retirement. My wife worked as a teacher in Moreno Valley for 30 years until she retired. We have seen many changes in the valley over the years, some good and some bad. The approval of the MVTC warehouse would be the most egregious decision this council could ever make. The negative impacts on our city would be overwhelming and the positive results are minimal. As you are all well aware, our air, the condition of our roads, and our traffic conditions would become impossible to manage effectively. Also, since all of those trucks will need diesel fuel, the land where a truck stop would be built will be negatively impacted as well. If you were to approve this proposal at your meeting of 6/21, it would show an obvious lack of respect or caring for our community. This land was zoned for residences and it should remain so.
Lt. Col. Walter Fus, retired

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Jeff Sims <arlenego@verizon.net>
Sent: Monday, June 13, 2022 11:27 AM
To: Elena Baca-Santa Cruz; Edward A. Delgado; davdma@moval.org; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Sean P. Kelleher; Gabriel Diaz; City Clerk
Subject: Comment Letter - MVTC (Appeal PAA21-0001)
Attachments: 06 11 22 Letter to Council.pdf; LAFCO MSR (MV portion).pdf

Warning: External Email – Watch for Email Red Flags!

Hi,

Attached for your review is a letter and attachment regarding the upcoming June 21 appeal hearing for the MVTC.

I apologize in advance for its length (5 pages) but I have written it absent much technical jargon. It should be a fairly quick read.

As one of your current appointed Planning Commissioners I voted no against this project and continue to believe that was a good decision. For full transparency I do live in the neighborhood directly adjacent to this project and confirmed with the City Attorney my eligibility to vote. I was very careful in the time leading up to the project going before Planning Commission on October 28, 2021 to avoid any actions that would compromise my ability to vote.

Likely supporters of the project call me hypocritical for voting no on this project as I have voted yes on most similar projects, including the World Logistic Center. The WLC when built will have impacts to the immediate area and affect traffic on a widespread basis. I voted yes though because WLC if built as approved has a plan to minimize impacts on the existing residential neighborhoods. Other warehouse/logistic projects I have voted yes on were either on property already zoned for the use, or not located directly adjacent residential. For example I voted yes on a warehouse on old 215 near the American Legion because 1) the land was zoned for that use, and 2) the existing residential adjacent thereto is consider a legal but non-conforming land use.

MVTC requires you to approve a putting an incompatible land use directly next to existing residential, and amend your recently approved General Plan Update.

Thank you in advance for taking the time to reading and considering this letter in your decision-making. If you'd like to discuss I can be contacted via email at this address or by phone at 951.809.3308.

Jeff Sims

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

June 11, 2022

Honorable Mayor and City Council Members
City of Moreno Valley

Subject: Moreno Valley Trade Center
Appeal PAA21-0001

The Moreno Valley Trade Center ("MVTC") was considered by your appointed Planning Commission on October 28, 2021 and unanimously denied entitlement approvals. On December 7, 2021 the Planning Commission's denial was appealed to this Council. After considerable input by interested stakeholders, Council Members deliberated. Deliberations appeared to be headed in a direction where three Council Members were in favor of upholding the Planning Commission's decision of entitlement denial. Mayor Gutierrez acknowledged this with his deliberative statement "it doesn't appear there is support for the project," and instead of calling for the vote, motioned for a continuance, which was approved. Apparently, the continuance was to give the developer of the proposed MVTC time to address input heard at the Planning Commission and City Council Meeting.

Of note the developer heard the concerns and objections regarding the project at the Planning Commission Hearing where it was unanimously denied but cavalierly a month later at the City Council Appeal Hearing addressed none of the concerns. A person could go down many paths on why. But an obvious non-controversial reason is Hillwood's motivation is profit driven with little to no concern of the impacts on the city, and especially for the existing residential neighborhood directly adjacent to the proposed MVTC. Hillwood wants the project entitled to achieve their goal of maximizing profit.

What were some of the main concerns and objections raised regarding the MVTC?

1. Incompatible Land Use - The proposed MVTC land use is not consistent with the recent City of Moreno Valley General Plan Update. The General Plan Update indicates R-2 zoning for the property where the MVTC is proposed. The General Plan Update process and the entitlement review process for the proposed MVTC was happening concurrently over a two-year time frame. It is hard to believe city planning staff, city leadership, including the Council was not aware of the proposed MVTC during the processing of the General Plan Update. Why have an approved General Plan and not honor it? The General Plan process considered the need to retain compatible land uses adjacent one another and appropriately retained a residential land use adjacent the existing half and third acre residential lots directly adjacent to the proposed MVTC. Your Planning Commission recognized the incompatibility of land uses and denied the MVTC entitlements for consistency with guidance of the City's General Plan as approved by this Council.

2. Traffic – MVTC proposed for maximization of their project functionality as a warehouse/distribution use to dump thousands of daily employee passenger car trips onto Encelia Avenue. Encelia Avenue is a residential street and one of the two main access points into the large existing rural residential area. The Developer indicated at hearings "they tried

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

everything they could to mitigate, but the design as proposed was necessary so truck traffic in and out of their proposed project would not interface with their employee ingress and egress." Their proposed solution to the problem they are creating is to make it a forever problem on the existing neighborhood.

3. Air Pollution – Although I am a registered civil engineer, I am not technically versed in the details of air pollution. But it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in air pollution in the vicinity. Hillwood in hopes to placate nearest residents offers band aid mitigation.....ask yourself, would I want that air pollution right next to my house so you and your family breathe it in 24/7 – 365 for as long as you live there?

4. Noise Pollution – Like with air pollution, it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in noise pollution in the vicinity. Hillwood in hopes to placate nearest residents offers some band aid mitigation.....ask yourself, would I want that right next to my house? District 4 Councilmember Cabrera during the appeal hearing stated his first-hand experience about noise impacts from logistic/warehouse use near his home and indicated it was noticeable. There will be increased noise pollution happening all hours of every day.

It is my understanding MVTC representatives have made some modifications to the proposed project in advance of the June 21, 2022 appeal hearing. An area resident who has been in contact with Hillwood and reported Hillwood has shown plans with the building footprint reduced by 65,000 SF and redesigned the parking and access to eliminate traffic, both truck and employee, to and from Encelia Avenue. The updated proposal shows a large berm and drainage detention facility proposed along Encelia Avenue.

Eliminating traffic from the proposed MVTC to Encelia Avenue addresses some of the invasive, obtrusive, and irreparable harm the initial MVTC design would have on the adjacent neighborhood. As previously proposed several thousand passenger car equivalents would be generated by the project of which many would over time find their way through the neighborhood to avoid traffic congestion on Redlands Blvd. But this is just one part of the traffic harm created by the proposed MVTC.

For those of us who drive Redlands Blvd. daily to gain access to the 60 Freeway know the roundabout is challenging now in peak periods caused by the existing traffic. You don't have to be a traffic engineer to know this will be exacerbated with the addition of the proposed MVTC. This problem will remain for decades until the Redlands/60 interchange is upgraded. I say decades because as a resident of the City of Moreno Valley living in the east end since 1994, I've seen how long the Moreno Beach interchange has taken to be improved, and it's still not done. The city is getting the cart in front of the horse approving major truck and traffic producing projects where supporting road infrastructure is obviously deficient. The Redlands Blvd/60 interchange is deficient for more truck traffic and addition of the proposed MVTC will further degrade the quality of life of area resident's dependent on this interchange. The daily drive in and out of Moreno Valley is already horrible. For example, I live off Redlands Blvd. just south of the 60 and work 17 miles away in Jurupa Valley. Everyday going to work I get the 60/215/91 experience. It regularly takes a minimum of 45 minutes leaving the house at 6:15 am to get to work.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Coming home the traffic is worse and the same drive lengthens to 60 plus minutes. Absent an improved Redlands/60 interchange this project will add more time lost to sitting and slogging through added traffic congestion trying to get off 60 at Redlands and navigating through the roundabout. I am sure most, if not all, of the area resident who commute to work agree the proposed MVTC will degrade an already bad situation.

Attached is the Moreno Valley portion of the draft LAFCO Municipal Services Report. As you know LAFCO is an unbiased governmental entity to monitor services provided by various municipalities within Riverside County. There are some interesting findings in this that you as elected leaders of this city should be mindful of:

1. The median household income in Moreno Valley is lower than the rest of the County of Riverside
2. Moreno Valley's population grew slowly during the last decade at just 0.77%
3. Population growth over the next 15-25 years is not expected to keep up with county-wide growth rates
4. The City's land use profile "is disproportionately skewed towards industrial development with almost 75% of the City's commercial square footage designed for industrial users"
5. Largest employers are distribution centers
6. The City will not meet its Regional Housing Needs Assessment 6th cycle (RHNA) in all income categories.
7. FY 2018/19 revenues = $171 M FY 18/19 expenses = $149 M
8. Major sources of income:
    a. Property tax
    b. Sales tax
    c. Property tax in lieu of vehicle licensing fee
    d. Utility tax

Supporters of large box distribution/logistic facilities tout alleged benefits of "job creation", increased ability to work near home, and "living wages". If this is true, why is the median income in Moreno Valley lower than the rest of the County of Riverside? Why is our population growth slow and expected to stay slow? Perhaps it is because in truth, logistic/distribution jobs don't pay living wages sufficient to own and buy a home. Also, perhaps the word on the street now is Moreno Valley is becoming an unattractive place to live and raise a family because of the disproportionately skewed land use of industrial development that creates traffic congestion, difficulty to get in and out of Moreno Valley, low paying jobs, and added air and noise pollution.

You just approved the City's General Plan with this property planned for residential. At a minimum even if you can somehow find a way to justify the benefit of the proposed MVTC over the irreparable harm to the area residents, an approval in land use change from residential to industrial shows continued disregard by the City in meeting its Regional Housing Needs Assessment (RHNA) metrics. Perhaps a more appropriate use for the property is a rezone from R-2 to residential zoning proposing a transition of R-2 along Encelia Avenue to apartments/PUD along Eucalyptus. At least there would be a buffer for the existing residential use with compatible uses. Under this scenario, people moving there would do so acknowledging/accepting the surrounding existing land uses. And with transitional residential with higher densities, the city could indicate progress towards meeting RHNA metrics by providing more opportunity for affordable housing consistent with Moreno Valley incomes.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

I urge the Council to not approve the MVTC. The area residents don't deserve their quality of life degraded by an out-of-town developer looking to make buck. We all know the city likes added tax increment revenues from development. Once this property is built the property tax increment will see a large increase (over current) that will remain fairly static as future property tax increment increases are constrained by Prop 13 legislation. Other land uses could be built on this property and increase city property tax increment revenue in similar manner and if built as residential the added population will live, shop, and spend in Moreno Valley. This would generate increased sales tax revenue and more utility tax revenue.

Saying no is hard especially on projects supported by entities such as LIUNA. LIUNA focuses on doing a good job to keep their dues paying members employed. But how many of those LIUNA represented members live in Moreno Valley? And after a LIUNA project is built, LIUNA representatives will be at the next Planning Commission and Council Meeting in whatever town the next project is proposed. I certainly understand it takes quite an undertaking to get elected and re-elected. My hat off to all of you seeking office with the goal of doing good for those you seek to represent. It takes backing and money to get exposure. Maybe it's a bit naïve on my part, but it would be nice for those seeking elected office to remember the people who live, shop, and spend in Moreno Valley are the ones who are most impacted by the consequences of their decisions. Out-of-town and special interest campaign contributors who help with local city elections won't live with the negative impacts of the projects they seek approval. In the most recent Council District vote the win was not by significant margin which may be indicia people are taking note of the policies and stances of people seeking elected office here in Moreno Valley. As traffic in and out of Moreno Valley gets worse and neighborhoods are impacted by traffic, noise, and air pollution from these warehouse projects it is highly likely there will be less support for leadership who supports approving them.

Many cities are starting to push back on warehouse/logistics project being approved. With what Moreno Valley has already approved in this land use waiting to be built (World Logistics Center) perhaps tapping the brakes a bit would not be a bad decision.

In the event the Council makes findings and justifications indicating the proposed MVTC has more benefit to the city than harm despite its Planning Commission denial and significant area opposition, it is requested Council consider the proposed MVTC be conditioned with the following:

1. An irrevocable deed restriction or some other legally sufficient mechanism on the property forever disallowing any project traffic onto Encelia Avenue. The only exceptions would be - access for emergency by Fire or Police, and if the property in the distant future was redeveloped into residential.
2. Addition of a traffic signal at the intersection of Redlands and Dracaea.
3. Full improvement of the west side of Redlands Blvd. between Encelia and Dracaea. It is anticipated the proposed MVTC is already conditioned to fully improve Redlands Blvd. along its frontage between Eucalyptus and Encelia and provide for adequate transition from full improvement on Redlands for southbound traffic to existing two lane roadway on Redlands between Encelia and Dracaea. This would complete Redlands Blvd. between Eucalyptus and Cottonwood and be an incremental add to the project conditions.

Items 2 & 3 are needed to provide area resident with easier access to Redlands Blvd. and ability to leave the area via Cottonwood to Moreno Beach or Alessandro to avoid congestion at the roundabout and unimproved 60/Redlands interchange. Instead of the Developer proposing to fund road improvements

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

in other areas of the city, this funding could be used to make these improvements to benefit those directly impacted. To provide some equity to the proposed MVTC developer, the developer and the City could enter into a reimbursement agreement where MVTC would be reimbursed some proportionate amount from other developers within an identified Benefit Area who benefit from Redlands Blvd. street improvements. For example, there is undeveloped property along the west side of Redlands Blvd. between Encelia and Dracaea. The future developer of this property would likely be conditioned to build out this improvement if not already built. It would seem reasonable this developer would be required to contribute a proportionate share of the expense paid by MVTC for making the improvement.

As a Planning Commissioner I have participated in the approval of most warehouse/logistic projects in this city. This includes voting yes for the World Logistics Center (WLC) despite living close to it. What WLC has going for it is a plan for buffering the impacts of its project from the existing residential and eliminated truck and employee traffic from Redlands Blvd. with access from Theodore now WLC Parkway. Most other warehouse/logistic approvals in the city have been in areas where the existing underlying land use zoning allows for warehouse/logistic use, or the projects are located where there are existing non-residential land uses, and city approved truck routes.

The proposed MVTC even if modified to eliminate traffic on and off Encelia Avenue will create irreparable harm to the existing residential neighborhood. These residents sought out and bought homes in this area with a reasonable expectation city elected would respect and protect these investments by not approving incompatible land uses. Prior Planning Commissions and City Councils have done that in the past. For example, when Pro-Logis was developing along Eucalyptus east of the auto center, they responsibly agreed with area resident and city leadership to maintain a buffer of their proposed industrial use to the existing residential and eliminated two buildings from their project.

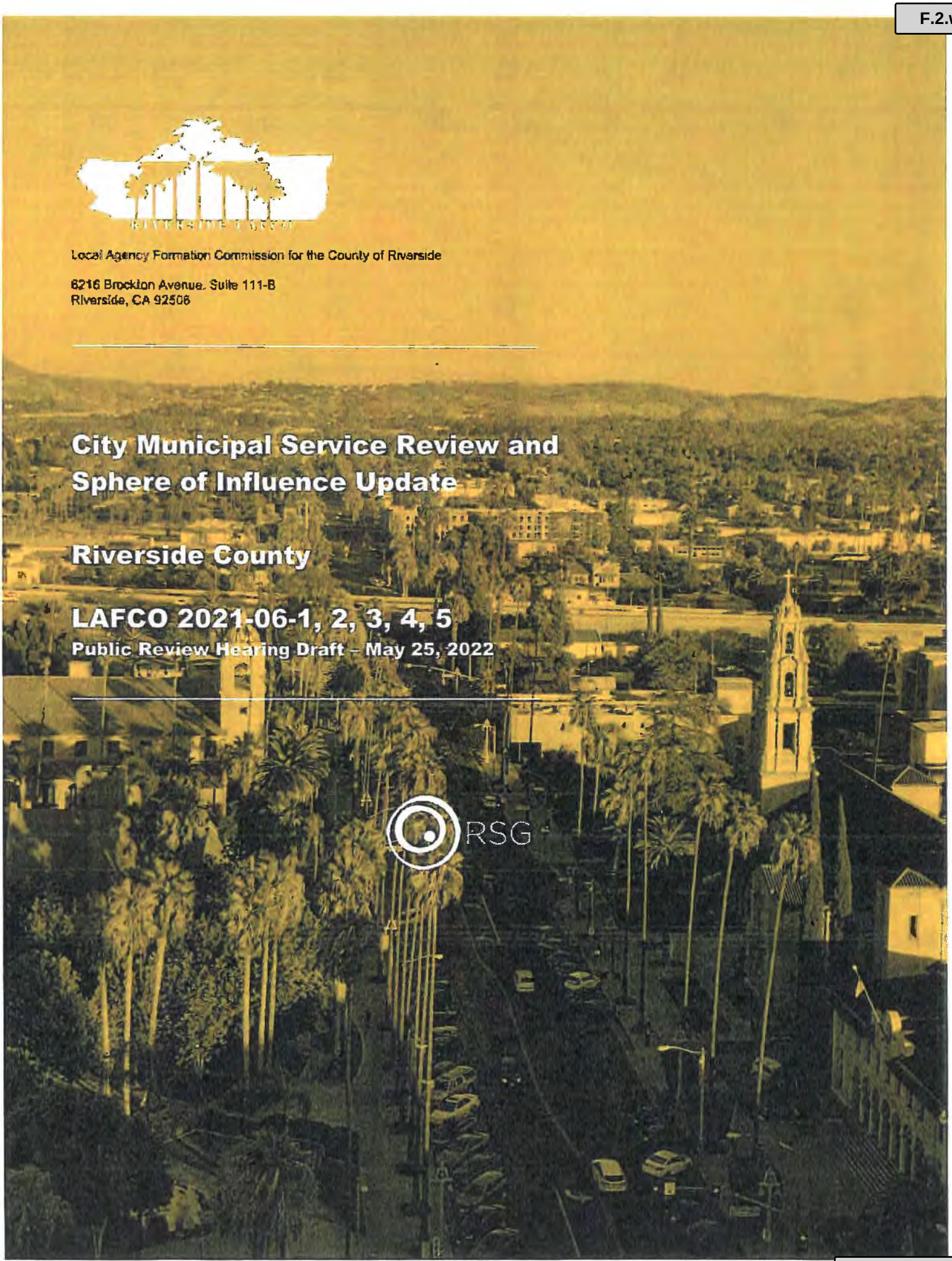
Saying no is hard but needs to be done sometimes. This is one of those times. The harm the proposed MVTC creates far outweighs the tax revenue increase this project will generate. There is still around 2,800 acres of property approved for warehouse/logistics on the east side of the Redlands Blvd. This existing neighborhood does not deserve having this added incompatible use built right on top of it. A yes vote on the proposed MVTC benefits out-of-town developers who will enjoy profits at the expense of city residents.

Please do right by your citizens who have invested in homes, pay taxes, shop, spend, and vote in Moreno Valley. Vote no on approval of the proposed MVTC upholding your Planning Commission's decision and your recent General Plan approval.

I thank you for your time to read this letter as part of your deliberations coming to a decision. If you have any questions or would like to discuss, please feel free to contact me.

Jeff Sims
City of Moreno Valley Resident
Planning Commissioner – City of Moreno Valley

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)



Local Agency Formation Commission for the County of Riverside

6216 Brockton Avenue, Suite 111-B
Riverside, CA 92506

City Municipal Service Review and Sphere of Influence Update

Riverside County

LAFCO 2021-06-1, 2, 3, 4, 5

Public Review Hearing Draft – May 25, 2022

RSG

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

PREPARED FOR RIVERSIDE LOCAL AGENCY FORMATION COMMISSION

COMMISSIONERS

Michael Vargas, Chair, City Member
Stephen J. Tomanelli, Vice Chair, Public Member
Steven Sanchez, City Member
Kevin Jefferies, County Member
Jeff Hewitt, County Member
Phil Williams, Special District Member
Nancy S. Wright, Special District Member

ALTERNATE COMMISSIONERS

Ted Hoffman, City Member
V. Manual Perez, County Member
Steve Pastor, Special District Member
Jim Love, Public Member

STAFF

Gary Thompson, Executive Officer
Crystal Craig, Assistant Executive Officer
Melissa Cushman, Legal Counsel
Elizabeth Valdez, Commission Coordinator/Clerk
Michael Henderson, GIS Analyst
Rebecca Holtzclaw, Secretary

PREPARED BY RSG, INC.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

CITY OF MORENO VALLEY

The City of Moreno Valley incorporated in 1984 as a general law city in the County's Western Region.[110] The City's northern, eastern, and the majority of the southern boundary is shared with unincorporated Riverside County territory. Most of the City's southern boundary is adjacent to the Lake Perris State Recreation Area. The City of Perris boundary is immediately south of a portion of Moreno Valley. The City's western edge is bound by the March Air Reserve Base, City of Riverside corporate boundary, and unincorporated territory. The City's incorporated boundary covers an area of 51.3 square miles and the City's SOI extends northwest and southeast to encompass an additional 15.5 square miles, for a combined 66.8 square miles.[111]

The City's demographic profile is presented in Figure 84.

Figure 84: Demographic Profile - Moreno Valley

Moreno Valley	City	SOI	County
Population as of 2020	208,838	150	2,442,304
Population as of 2010	193,365	105	2,189,641
Annual Pop. Growth Since 2010	0.77%	3.63%	1.10%
Housing Units	57,523	55	867,637
Persons / Housing Unit	3.63	2.73	2.81
Land Area (sq mi)	51.3	15.5	7,206.0
Persons / Square Mile	4,071	10	339
Median Household Income	$64,073	$93,293	$67,369
Projected Population in 2035	246,068		2,995,509
Annual Proj. Growth 2020-2035	1.10%		1.37%
Projected Population in 2045	266,814		3,251,705
Annual Proj. Growth 2020-2045	1.65%		1.93%

Sources: California Department of Finance, Southern California Association of Governments, US Census, ESRI Business Analyst Online (Growth rates are presented as annual growth rates)

[110] Source: City of Moreno Valley
[111] Source: Riverside LAFCO

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley's population grew slowly during the last decade, increasing at just a 0.77 percent annual growth rate to a total population of almost 209,000. Moreno Valley is the second-largest city in the County of Riverside. Moreno Valley has large households (3.63 persons per household) and a high population density (4,071 persons per square mile) when compared to the County averages (2.81 persons per household and 339 persons per square mile). The population projections over the next 15 to 25 years indicate that population growth will increase, but growth is not expected to keep pace with County-wide growth rates.

The City's SOI contains a population of just 150, spread across 55 households. The City's median household income is slightly lower than the County-wide average, while the median household income in the SOI is about 38 percent higher than the County-wide average.

The City's land use profile is disproportionately skewed towards industrial development, with almost 75 percent of the City's commercial square footage designed for industrial users. During the last decade, the City added over 9.3 million square feet of industrial space, representing about half of the City's commercial development. While this is a significant increase in square footage, a lot of the City's development can be attributed to retail projects. The City's housing inventory is concentrated in single-family housing, representing more than 80 percent of the City's units.

Aligned with the City's land use profile, several of the City's largest employers are distribution centers, including Amazon (7,500 employees), Ross Dress for Less/DD's (2,400 employees), Sketchers USA (1,200 employees), Harbor Freight Tools (788 employees), and Deckers Outdoor (700 employees). The remaining top ten employers include March Air Reserve Base (9,600

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

employees), Riverside University Health Systems Medical Center (3,400 employees), Moreno Valley Mall (1,500 employees), and Kaiser Permanent Community Hospital (1,457 employees).[112]

Moreno Valley's land use summary is presented in Figure 85.

Figure 85: Land Use Summary - Moreno Valley

Moreno Valley			County
Residential Units	Units	%	%
Single Family	46,378	80.6%	54.8%
Multifamily	9,781	17.0%	43.6%
Mobile Home	1,364	2.4%	1.6%
Total Units	57,523	100.0%	100.0%
New Units Since 2010	1,964		
Commercial	Gross SF		
Retail	6,080,993	20.9%	26.6%
Industrial	28,896,728	74.9%	61.8%
Office	1,512,415	3.9%	9.6%
Other	103,295	0.3%	2.0%
Total	38,593,431	100.0%	100.0%
New Commercial Since 2010	20,028,947		

Sources: California Department of Finance (2020) and Costar (Other includes hospitality, healthcare, specialty, sports and entertainment)

CURRENT SPHERE OF INFLUENCE, ISLANDS/POCKETS, AND DUCS

The City of Moreno Valley's SOI consists of three (3) noncontiguous areas, illustrated in Exhibit 12. The City's eastern SOI is the largest of the three (3) areas, stretching eastward into the hills along State Route 60 and southward along Gilman Springs to encompass the area known as Mystic Lake, which is a seasonal body of water. The City's northwestern SOI extends west to the City of Riverside's existing SOI in the hills north of State Route 60, in an area that is largely overlapping the Box Springs Mountain Reserve Park. The City's third and smallest SOI area

[112] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

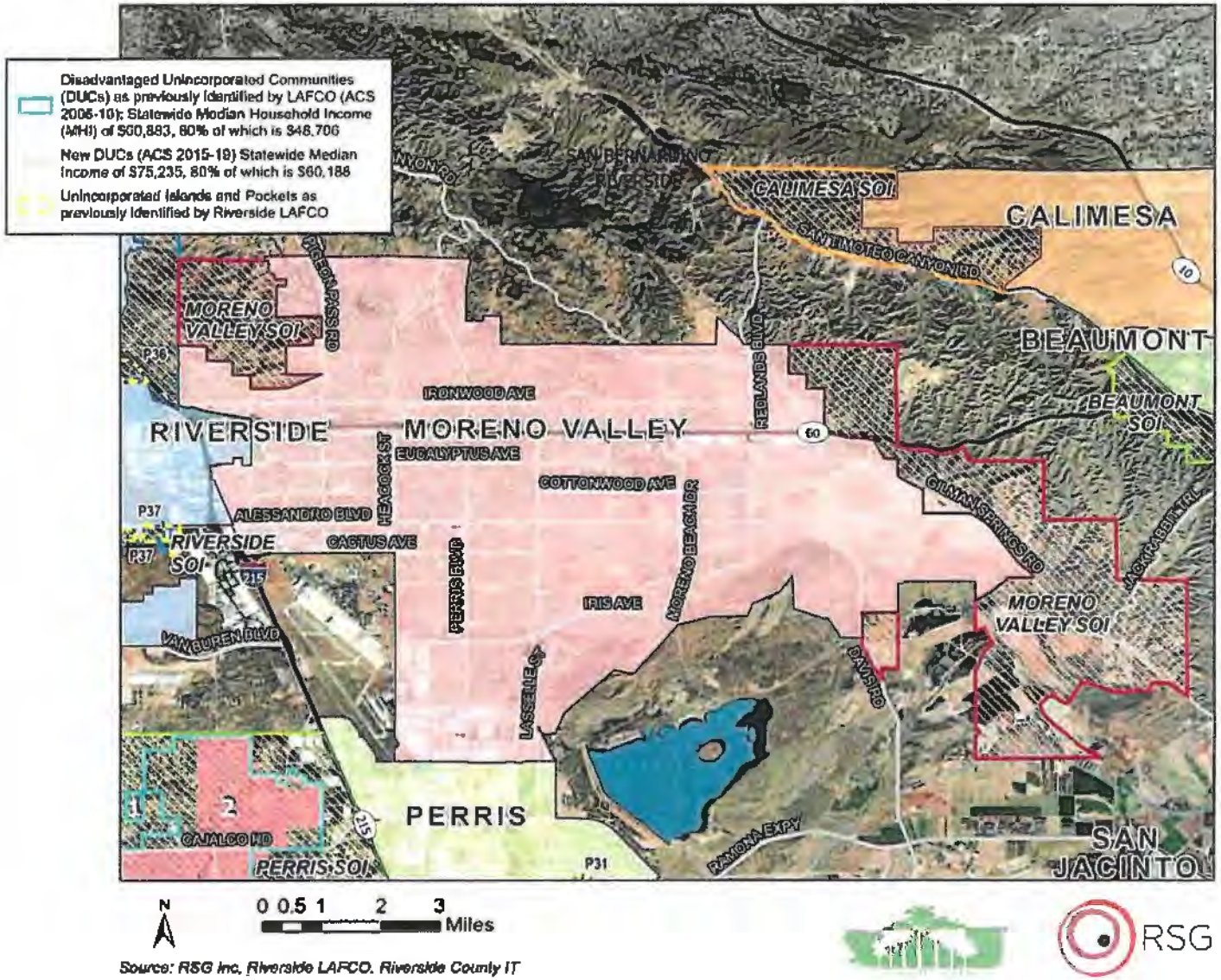
extends south from the City's southern boundary adjacent to Lake Perris State Recreation Area, east of Davis Road.

The SOI does not contain LAFCO-identified DUCs or unincorporated islands and pockets.

Moreno Valley's boundary was previously reconfirmed in the September 2006 Central Valleys, The Pass Area and Southwestern Riverside County MSR (LAFCO 2005-49-3&5; LAFCO 2005-48-5; LAFCO 2005-47-1&3) (the "2006 MSR").

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

City of Moreno Valley and Sphere of Influence



Source: RSG Inc, Riverside LAFCO, Riverside County IT

Exhibit 12: Current City and SOI Boundaries - Moreno Valley

City of Moreno Valley
City Municipal Service Review and Sphere of Influence Update
Riverside County

Public Review Draft – May 25, 2022

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade

FORM OF GOVERNMENT AND STAFFING

The City of Moreno Valley is a "Council – Manager" form of government, with a City Council that includes five (5) members, including one Mayor elected at-large, and four (4) Councilmembers elected according to district boundaries. The Mayor serves a two (2) year term while Councilmembers serve four (4) year terms. The City Council appoints a City Manager, who serves as the head of the administrative branch of the City government.[113]

The City Council also serves as the Housing Authority, Successor Agency, Moreno Valley Community Services District, Public Financing Authority, and Public Facilities Financing Corporation. Several boards, commissions, committees, and councils carry out assignments as directed by the City Council, including the Accessibility Appeals Board, Environmental and Historical Preservation Board, Senior Citizens Advisory Board, Arts Commission, Library Commission, Planning Commission, Traffic Safety Commission, Utilities Commission, Moreno Valley Citizens Public Safety Committee, Parks Community Services and Trails Committee, and the Emerging Leaders Council.[114]

The City Manager reports directly to the City Council and oversees a staff of 375 full-time equivalent personnel.[115] The City's annual operating expenditures ranged from $118 to $150.3 million between 2016-17 2018-19.[116]

SERVICES PROVIDED

City staff provide the community with building and planning, housing, code enforcement, animal control, parks and recreation, landscape maintenance, streets and road maintenance, lighting, utilities, stormwater drainage, and innovation and technology services. The following section describes municipal services provided within Moreno Valley and identifies the service provider.

---

[113] Source: City of Moreno Valley
[114] Source: City of Moreno Valley
[115] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report
[116] Source: California State Controller's Office, "Cities Financial Data"

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Figure 86 summarizes the municipal services provided within the Moreno Valley city limits by the City or by other service providers.

Figure 86: Service Provider Matrix - Moreno Valley

Public Service	Service Provider	City Department	County	Small Independent Special District	Large Independent Special District	Small Dependent Special District	Large Dependent Special District	Private Contractor	Franchise	Shared Service	Other
Law Enforcement	Sheriff		■								
Fire Protection	Fire/CalFire		■								
Emergency Medical	Fire/CalFire		■								
Building/Planning	Community Development	■									
Housing	Housing Authority	■									
Code Enforcement	Community Development	■									
Animal Control	Community Development	■									
Parks and Recreation	Parks and Community Services, CSD, Regional Parks	■				■	■				
Library	Library, Library System	■	■								
Museum	Historical Society							■			
Landscape Maintenance	Public Works, CSD, LLMD, & CFD	■				■					
Streets/Road Maintenance	Public Works, CSA	■					■				
Streetlights	Edgemont CSD, CSD, LLMD, & CFD				■	■					
Lighting	Public Works, CSD, LLMD, & CFD	■				■					
Utilities	Electric Utility, Edison, So Cal Gas	■							■		
Solid Waste	Waste Management								■		
Stormwater Drainage	Public Works, Flood Control & Water Conservation	■					■				
Innovation and Technology	Financial & Management Services, Spectrum, AT&T	■							■		
Airport	N/A										
Cemetery *	N/A										
Healthcare *	N/A										
Water *	Eastern Municipal Water District, Edgemont CSD				■						
Wastewater *	Edgemont Community Services District				■						

* Not included in this MSR

Government Services

General government services in the City of Moreno Valley are provided by the elected City Council, and appointed staff like the City Manager and City Clerk. The City Manager serves as the Chief Executive of the City and is responsible to the City Council for the efficient management of all City business including implementation of Council policies and programs, providing direction to departments that administer City programs and services, coordinating intergovernmental relations and legislative advocacy efforts, and administering the outsourcing agreements through which Public Safety services are provided. The City Clerk is responsible for the administration of all municipal elections, access to and management of City records, preparation of agendas, recording and maintenance of all Council actions, maintenance of the Municipal Code, and serves as the official custodian of the City seal.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Law Enforcement

Moreno Valley receives law enforcement services from the Riverside County Sheriff Department. The Sheriff provides general policing services including, investigations, special enforcement, school resources, traffic enforcement and patrols, community services, crime prevention, and the administration of the volunteer program and the Explorer youth program.

The 2006 MSR presented the following determination:

- Law enforcement services were being provided at a level below the City's standard of 1 sworn officer per 1,000 people.

According to City staff, the recently adopted General Plan identifies City policies for providing responsive, efficient, and effective law enforcement services that promote a high level of public safety. Furthermore, City staff noted that the City no longer has a policy specifying a number of sworn officers per 1,000 residents.

Fire Protection

Fire Protection services are provided by Riverside County Fire Department/CalFire in Moreno Valley. Since 1921, the Riverside County Fire Department has been in a contractual relationship with CalFire to provide wildland fire protection services. In 1946, the contract between CalFire and Riverside County Fire Department was expanded to include fire protection services. Services provided by Riverside County Fire Department/CalFire include fire protection and prevention, medical response, review of planning cases, review and inspections of construction and developments, fire and life safety inspections of state-regulated occupancies, information on ordinances and standards for construction, and information bulletins and standards for fire protection. Fire Stations 2, 6, 48, 58, 65, 91, and 99 are in the City.

The Riverside County Fire Department/CalFire provides fire protection services to 20 cities in Riverside County and the Rubidoux community services district. The Riverside County Fire Department/CalFire also responds to calls for service in seven (7) additional Riverside County cities and the Idyllwild Fire Protection District through mutual and automatic aid agreements.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Emergency Medical

Emergency medical services are provided by the Riverside County Fire Department/CalFire. Please refer to the previous section for more information on the Department.

Building/Planning and Housing (Community Development)

Building, planning, and housing services are provided by the City's Community Development Department through the Planning and Building and Safety Divisions. The Planning Division informs the planning commission, ensures new developments fulfill the City's strategic priorities, and ensures new development is in line with CEQA. The Building and Safety Division conducts plan reviews, issues permits, conducts field inspections, and coordinates permit approvals with City departments and outside agencies.

Code Enforcement

Code enforcement services are provided by the Community Development Department's Code and Neighborhood Services Division. The Division responds to citizen complaints, proactively enforces the municipal code, provides parking control services, and runs the abandoned vehicle abatement program.

Animal Control

Animal control is provided by the Animal Services Division of the Community Development Department. The Division provides humane animal services, sheltering, rabies control, stray animal control, licensing, and public education. A shelter operated by the Division is located in the City at 14041 Elsworth Street.

Parks and Recreation

Parks and recreation services are provided by three (3) entities: The City's Parks and Community Services Department, the Community Services District- Zone A, Community Facilities District No. 1, and the Riverside County Regional Parks and Open Space District. The Department provides

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

maintenance and development of parks, trails and recreational facilities, maintains open space, administers an array of recreational programs, and enforces park rules and regulations. The Community Services District, known also as Zone A, services parks in the City with the Parks and Community Services Department. The District primarily provides funding to the Department for parks and recreation services. The Community Facilities District No. 1 also provides funding to the Department, but funding is reserved for maintenance of facilities. The Riverside County Regional Parks and Open Space District operates the Box Spring Mountain Reserve in the City. The Reserve is located on 3,400 acres of land that overlooks the cities of Riverside and Moreno Valley. The entrance is located at 9699 Box Springs Mountain Road in Moreno Valley.

The 2006 MSR identified the following determinations:

- The City was providing parkland at a ratio that was below the City's standard and noted financing constraints that led to an increase in fee related recreational activities and a degradation of service provision.

According to City staff, the recently adopted General Plan identifies 671 acres of existing and planned parkland which could meet the parkland ratio within a 20-year period. City staff noted that the City also plans to evaluate parkland dedication fees and in-lieu parkland dedication fees to ensure that the City is adequately addressing the community need while maintaining regional competitiveness.

Library

The Moreno Valley Public Library provides library services to the City. The Library is owned and operated by the City. It has two (2) satellite locations in the Moreno Valley Mall and Iris Plaza. The Library provides users of all ages with reading materials in electronic and traditional formats, educational support for students, and literacy programs. The City's Community Services District provides funding for the operations of the Library.

The 2006 MSR presented the following determinations:

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

- The City's Library was too small to hold the City's entire inventory and the City had plans at the time to develop a larger facility.

The City has expanded library facilities to address this finding, adding two satellite libraries that provide library services throughout Moreno Valley. Museum

There is no museum in the City of Moreno Valley.

Landscape Maintenance

Landscape maintenance is provided by the City's Public Works Department through funding from the Community Services District, Landscape Maintenance District 2014-2, and several other special funding districts in the City. The Department provides general landscape maintenance services to public property and oversees any landscape maintenance contracts.

Streets/Road Maintenance

Streets and roads maintenance is provided by the Public Works Department. The Department's responsibilities include the coordination, maintenance, and operation of traffic facilities and roadways, sidewalk and street maintenance, and the management of City capital improvements.

The 2006 MSR identified the following determinations:

- The City's roads and intersections operating below the City's level of service standard.

City staff indicated that streets and roads were in fair to good shape.

Streetlights

The Moreno Valley Community Services District, Zone C Arterial Streetlights, the Lighting Maintenance District 2014-01, the Community Facilities District 2014-01, and the Edgemont Community Services District all provide funding for streetlight maintenance in various parts of the City. The Edgemont Community Services District provides streetlight maintenance services to several neighborhoods in the western part of the City. The District was formed in 1957 to cover

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

the Edgemont area of Riverside County which straddles both the cities of Riverside and Moreno Valley. The other districts provide funding that is used by the Moreno Valley Public Works Department to service the rest of the City.

Utilities (Gas, Electric)

Utilities are provided by the Moreno Valley Electric Utility ("MVU"), Southern California Edison ("SCE"), and the Southern California Gas Company ("SoCal Gas"). The MVU is the primary public electric utility in the City and is run by the Public Works Department. Created in 2001, the utility now serves around 6,600 residents. The traditional regional utilities SCE and Socal Gas both still serve some residents in the City. In Fiscal Year 2018-19 the MVU entered into a financing agreement through Bank of America to acquire the City's streetlights from SCE. According to City staff, the streetlights then underwent an LED retrofit.

Solid Waste

The City has a franchise agreement in place with Waste Management for solid waste collection services. Waste Management is a private solid waste disposal company provides solid waste disposal and recycling services to Moreno Valley residences. Waste Management is one of the largest solid waste companies in North America with more than 45,000 employees serving over 20 million residential, industrial, municipal, and commercial customers.

The 2006 MSR presented the following determinations:

- The City was not disposing of the required amount of solid waste.

City staff indicated that the City has implemented a number of innovative source reductions, recycling, composting, and reuse programs to help meet State diversion goals. The City's current diversion rate is 65 percent, which exceeds the current standard diversion rate of 50 percent. Furthermore, City staff noted that an amendment to the City's municipal code will require a diversion rate of 75 percent by 2025 as required by State law.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Storm Drainage

Storm drainage services are provided by the Public Works Department. The Department is responsible for engineering, designing, and overseeing the construction of capital improvements for flood and storm-water management, and the operation and maintenance of City storm drains.

County Service Area 152 provides funding for the management of the City's NPDES permit program, which is aimed at reducing pollution to underground water tables.

The 2006 MSR presented the following determinations:

- The City's storm water drainage is inadequate.

City staff did not indicate that storm water drainage was inadequate in the City.

Innovation and Technology

Innovation and technology services are provided by the Financial and Management Services Department. The Department manages the City's technology assets, improves hardware, software, and telecommunications, and provides IT support.

Airport

There is no public or private airport in the City of Moreno Valley.

Extraterritorial Services Provided

The City of Moreno Valley does not provide services outside of the City's boundaries. Government Code Section 56133 requires LAFCO approval for extension of services outside a sphere of influence in response to an existing or impending threat to public health or safety.

RECENT AND PLANNED MAJOR CAPITAL IMPROVEMENTS

The City prepares a Capital Improvement Plan that serves as a comprehensive planning document inclusive of revenues and expenditures for capital improvements within the City. The

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

City's CIP is adopted every other year and coordinates with the City's two-year budget cycle. The City plans to make improvements in regard to pavement rehabilitation, street and road improvements, interchange construction, bridge maintenance and construction, drainage improvements, lighting improvements, and community center renovation.

According to City staff, all projects identified above, except for the March Community Center Renovation, are moving forward and funded.

HOUSING NEEDS AND HOUSING ELEMENT REPORTING

The City of Moreno Valley submitted its 6th Cycle Draft Housing element to HCD on February 19, 2021. As of the date on this MSR, HCD had not completed the review of the City's Housing Element.[117] According to City staff, the City provided HCD with a second submittal and is in active discussion with HCD to have the 6th Cycle Housing Element certified. During the 5th Cycle, the City submitted Annual Progress Reports between 2014 and 2019, but failed to submit an Annual Progress Report in 2013.[118]

The City's 5th Cycle housing needs are presented in Figure 87.

Figure 87: 5th Cycle Housing Element Summary - Moreno Valley

Moreno Valley 5th Cycle Housing Needs	Very Low Income	Low Income	Moderate Income	Above Moderate Income
RHNA Allocation	1,500	993	1,112	2,564
Permitted Units	0	0	457	1,354
Allocation Surplus/(Shortage)	(1,500)	(993)	(655)	(1,210)

Source: HCD Annual Progress Report Permit Summary, October 6, 2020

The City permitted 457 moderate income housing units and 1,354 above-moderate income units during the 5th Cycle. The City did not permit any very low- or low-income housing units during the

[117] Source: California Department of Housing and Community Development, "Housing Element Implementation Status Tracker" updated June 28, 2019

[118] Source: California Department of Housing and Community Development, "Annual Progress Report Permit Summary," dated October 6, 2020.

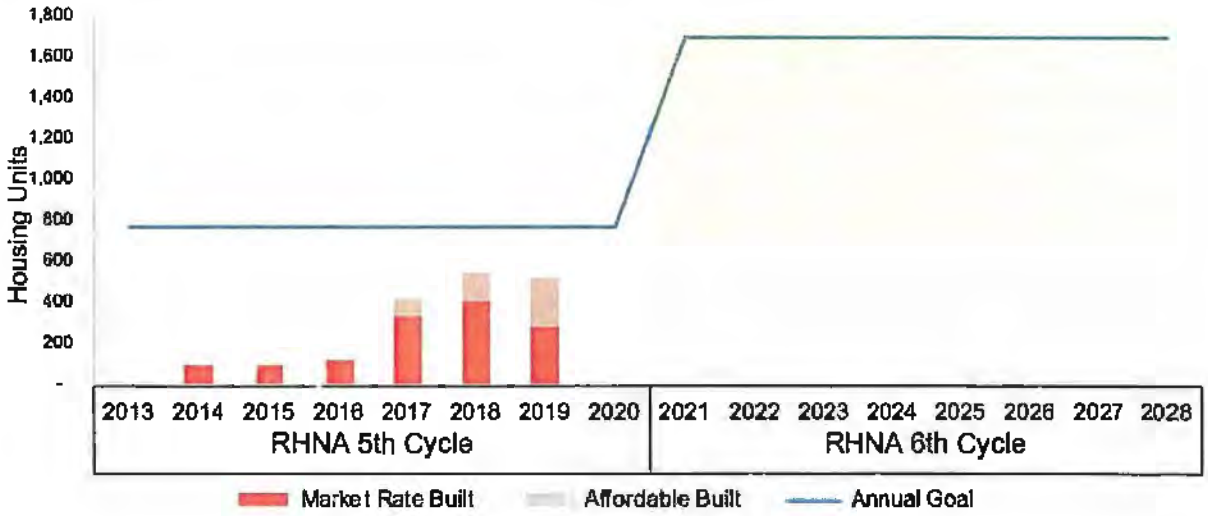
Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

5th Cycle, and the City fell short of meeting its RHNA allocation in all income categories. With a shortage of 4,358 housing units, the City is not expected to meet its RHNA allocation in any income category.

The City's RHNA allocation increases by about 120 percent, or 7,427 units, to a total of 13,596 housing units for the 6th Cycle. In order to accomplish this, the City will need to permit 1,700 units every year during the eight (8) year cycle. City staff noted that the Courtyards at Cottonwood affordable housing project in Moreno Valley is currently under construction and will assist the City in meeting its RHNA goals for low and very low income housing.

The City's 5th and 6th Cycle production goals and unit production is presented in Figure 88.

Figure 88: 5th and 6th Cycle RHNA Allocation and Production - Moreno Valley



Moreno Valley is one of 289 California jurisdictions that have not made sufficient progress toward either moderate-income RHNA unit production or failed to submit the latest (2019) Annual Progress Report. As a result, the City is subject to streamlined ministerial approval process for proposed housing developments with at least 10 percent affordable units. The streamlined

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

ministerial approval process was introduced as part of Senate Bill 35 (Chapter 366, Statutes of 2017) in 2017.[119]

City staff noted that the City adopted a new General Plan in June 2021 and has implemented all of the Zoning amendments required to implement its 6th Cycle Housing Element.

FISCAL HEALTH

The City of Moreno Valley's fiscal health evaluation, including audit findings, revenue sources, expenditure categories, long-term obligations, reserves, and California State Auditor assessment is presented in the sections that follow. The City's net position is presented as annual revenues less expenditures for fiscal years 2016-17 through 2018-19 in Figure 89. The City recorded surpluses in each year between 2016-17 and 2018-19.

Figure 89: Net Position - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Total General Tax Revenues	$80,283,944	$95,664,565	$101,563,227
Other Tax Revenues	252,636	757,763	3,562
Other Revenues	43,623,150	58,823,573	69,378,685
Total Revenues	**124,159,730**	**155,245,901**	**170,945,474**
Total Operating Expenditures	102,604,217	132,608,840	132,343,618
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**117,944,142**	**150,346,468**	**148,856,763**
Net Position	**$6,215,588**	**$4,899,433**	**$22,088,711**

Operating Revenues

As illustrated in Figure 90, the City had total revenues that ranged from $124.2 million in 2016-17 to $170.9 million in 2018-19. Figure 90 outlines the City's revenue sources between 2016-17 and 2018-19.

[119] Source: California Department of Housing and Community Development, "SB 35 Statewide Determination Summary"

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Figure 90: Operating Revenue History - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Revenues			
Property Tax	$13,549,337	$19,681,234	$20,781,717
Sales Tax	22,613,602	22,899,957	25,928,638
Transient Occupancy Tax	1,852,584	2,344,159	2,433,358
Property Tax in-lieu of VLF	17,430,250	18,406,258	19,577,636
Franchise Tax	5,673,109	6,300,486	6,585,791
Business License Tax	2,832,064	2,956,966	3,046,854
Property Transfer Tax	719,514	767,591	833,082
Utility User Tax	15,613,484	15,629,102	15,483,806
Other Tax Revenues	-	6,678,812	6,892,345
Total General Tax Revenues	**80,283,944**	**95,664,565**	**101,563,227**
Transportation Tax	252,636	757,763	3,562
Parking Tax	-	-	-
Voter-Approved Taxes	-	-	-
Functional Tax Revenues	-	-	-
Total Tax Revenues	**80,536,580**	**96,422,328**	**101,566,789**
Charges for Services	6,582,057	11,502,017	10,078,587
Special Benefit Assessments	686,981	800,544	732,737
Use of Money	3,040,329	6,153,214	9,724,869
Fines and Forfeitures	195,970	727,887	800,140
Licenses and Permits	2,950,348	3,234,411	3,638,808
Intergovernmental	14,637,872	18,156,624	21,488,264
Other Taxes in-Lieu	-	-	-
Miscellaneous Revenues	15,529,593	18,248,876	22,915,280
Total Revenues	**$124,159,730**	**$155,245,901**	**$170,945,474**

Source: California State Controller's Office

The City's general tax revenues, which were $101.6 million in 2018-19, account for 59.4 percent of the City's total revenues. The City has a diverse revenue base, with sales tax ($25.9 million), property tax ($20.8 million), property tax in-lieu of VLF (19.6 million), and utility user tax ($15.5 million) representing the largest revenue sources and collectively representing 80.5 percent of total general tax revenues.

When compared to all other Riverside County and California cities, the City's tax revenues are proportionate, except for utility user tax, which not all communities have adopted. Although sales tax is the City's largest general tax revenue source, accounting for 25.5 percent of the City's general tax revenues, it is proportionally lower than the average sales tax revenue for all

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Riverside County cities (39.9 percent), and more aligned with the average sales tax revenue for all California cities (24.7 percent). Because sales tax can be susceptible to economic shifts, such as the results of the COVID-19 pandemic, it may be advantageous for the City to rely less on sales tax revenues.

The City's general tax revenues are compared to all Riverside County and California cities in Figure 91.

Figure 91: General Tax Revenue Comparison - Moreno Valley

Aside from tax revenues, City's largest non-tax revenue sources are miscellaneous revenues ($22.9 million) and intergovernmental revenues ($21.5 million). The City's major revenue sources are described in greater detail in the sections that follow.

Sales Tax

Sales tax revenues are the City's single-largest tax revenue, accounting for 25.5 percent of general tax revenues or $25.9 million in 2018-19. Sales tax revenues are derived from one percent of gross receipts from the sale of tangible personal property sold in Moreno Valley. Sales tax revenues increased by 7.1 percent annually between 2016-17 and 2018-19.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Property Tax and Property Tax in-lieu of Motor Vehicle License Fees

Property tax and property tax in-lieu of VLF were the City's second and third largest tax revenues in 2018-19, accounting for 20.5 and 19.3 percent of general tax revenues respectively.

In 2018-19, the City collected almost $20.8 million in property tax. Property tax is assessed on land, improvements, and personal property, which amounted to about $15.6 billion in 2018-19. Approximately $4.1 billion in assessed value was derived from land value and $11.8 billion from improvements.[120] The City's property tax collections were approximately 15.6 percent of all property tax collected in Moreno Valley, which is one of the highest tax rates for a city in Riverside County.

The City's property tax revenues increased from about $13.5 million in 2016-17 to $20.8 million in 2018-19, 23.8 percent annual growth rate. While property assessed valuations can only increase by a maximum of 2 percent annually, property tax revenues can grow at a much faster pace as a result of new development adding new taxable value to the tax roll.

The City of Moreno Valley and County of Riverside have a mutually adopted Master Property Tax Exchange Agreement in place, which was adopted in 1985.[121]

Property tax in-lieu of VLF accounted for 19.3 percent of the City's general tax revenue in 2018-19, equivalent to $19.6 million. Property tax in-lieu of VLF replaced vehicle license fees as a revenue source for cities in 2004, and increases based on assessed valuation growth in the jurisdiction.

Utility User Tax

A fourth significant revenue source for the City is utility user tax revenues. The City assesses utility user taxes on telephone use at a rate of 5.75 percent, inclusive of intrastate residential and

[120] Source: California City Finance, "Assessed Valuation of Property by City"
[121] Source: Riverside LAFCO

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

commercial calls, interstate residential and commercial calls, international residential and commercial calls, and all wireless residential and commercial calls. Additionally, the City taxes business and residential electricity, business and residential natural gas, business and residential cable television, business and residential water, and business and residential sewer fees at a rate of 6 percent.[122] In 2018-19, utility user tax revenues amounted to $15.5 million, or about 15.2 percent of general tax revenues. Over the three (3) year period from 2016-17 to 2018-19, the City's utility user tax revenues were relatively flat, decreasing by a little more than $100,000 over that period.

Miscellaneous Revenues

The City's largest non-tax revenue source is classified as miscellaneous revenues. Miscellaneous revenues amounted to $22.9 million in 2018-19, or about 13.4 percent of all revenues. For the City, the primary sources of miscellaneous revenues includes development impact fees ($9.6 million in 2018-19), contributions from nongovernmental sources ($1.9 million), and other unclassified miscellaneous revenues ($11.3 million). According to City staff, the City is expected to begin preparation of a development impact fee study in 2021.

Intergovernmental Revenues

Intergovernmental revenues are collected from County, State, and Federal sources and amounted to $21.5 million in 2018-19 for the City. The City's intergovernmental revenues are comprised of gas tax revenues ($8.0 million), community development block grants ($1.8 million) and several other State ($8.0 million) and Federal ($3.3 million) government sources. Intergovernmental revenues increased from about $14.6 million in 2016-17 to $21.5 million in 2018-19, a 21.2 percent annual growth rate.

[122] Source: California City Finance, "Utility User Tax by City" updated in February 2021

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Operating Expenditures

The City's operating expenditures ranged from $117.9 to $150.3 million between 2016-17 and 2018-19. The City's annual operating expenditures, categorized by use, are presented in Figure 92.

Figure 92: Operating Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Operating Expenditures			
Salaries and Wages	$31,577,627	$45,685,127	$21,936,258
Employee Benefits	9,756,381	12,363,241	13,222,377
Materials and Supplies	4,749,004	2,974,431	3,675,063
Contract Services	56,321,004	57,844,737	83,315,931
Other Operating Expenditures	200,201	13,741,304	10,193,989
Total Operating Expenditures	**102,604,217**	**132,608,840**	**132,343,618**
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

Because the City contracts with the County of Riverside for law enforcement and fire protection services, it is not surprising that the City's largest expenditure category is contract services, amounting to $83.3 million in 2018-19. Between 2016-17 and 2018-19, the City's contract services expenditures increased by 21.6 percent annually – over the same time frame all other operating expenditures increased by just 2.9 percent. In 2018-19, the City's contract service expenditures amounted to 56 percent of total expenditures.

The City's largest current expenditure category is associated with public safety, amounting to $63.3 million in 2018-19. Public safety expenditures grew at just 3.5 percent annually between 2016-17 and 2018-19 while total current expenditures increased by 12.3 percent annually. Most of the growth occurred in transportation, community development, and culture and leisure expenditure categories. The City's current expenditures by function between 2016-17 and 2018-19 are presented in Figure 93.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Figure 93: Current Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Government	$17,323,316	$18,982,549	$19,669,398
Public Safety	59,152,472	63,992,529	63,305,321
Transportation	10,976,980	18,441,708	19,286,980
Community Development	6,843,958	12,717,384	11,128,467
Health	-	-	-
Culture and Leisure	8,307,489	18,474,670	18,953,452
Public Utilities	-	-	-
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Current Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

In most contract cities around Riverside County, the public safety costs are rapidly increasing at unsustainable paces – that is not the case in Moreno Valley. The fastest growing expenditure categories for the City were culture and leisure (51 percent annual increase between 2016-17), transportation (32.6 percent annual growth), and community development ($27.5 percent annual growth). These three (3) categories represented $23.2 million in expenditure increases between 2016-17 and 2018-19.

Culture and leisure expenditures are entirely associated with parks and recreation costs (almost $19.0 million in 2018-19) while transportation expenditures include costs for streets, highways and storm drains ($18.1 million), and trees and landscaping ($1.1 million). Community development expenditures are associated with planning ($3.2 million), construction and engineering regulation ($373,000), and other unclassified community development expenditures ($7.5 million). Some of these costs are recovered via charges for services, and according to City staff, the City's fees are balanced and consistent with all fee studies. City staff also indicated that the City planned to prepare a new development impact fee study in 2021 because the previous fee study was prepared nine (9) years ago.

Reserve Fund Balance

The City has several reserve fund policies. The City's cash flow reserve aims to preserve 17 to 35 percent of General Fund expenditures. The Emergency fund policy requires 12 percent of

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

General Fund expenditures and the Rainy Day Reserve policy requires an additional 10 percent of General Fund expenditures to be retained. The City's 2020-21 budget indicates that the City will retain $39.9 million in reserves and is in compliance with the City's reserve policies.[123]

Pension and OPEB Obligations

The City of Moreno Valley's pension and OPEB obligations are outlined in Figure 94.

Figure 94: Pension and OPEB Obligations - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Net Pension Liability/(Surplus)	$72,410,028	$68,092,267	$72,896,273
Total OPEB Liability/(Surplus)	7,099,335	6,453,487	8,175,011
Total Benefit Liability/(Surplus)	$79,509,363	$74,545,754	$81,071,284

Source: 2017-18, 2018-19 and 2019-20 ACFR

Qualifying employees are eligible to participate in the City's Miscellaneous Pension Plan. The City does not have public safety employees and therefore does not offer a Safety Plan. The City also provides OPEB policies, which are defined benefit postemployment healthcare plans for retired persons, and benefits are extended to surviving spouses. As illustrated in Figure 94, the City has about $81.1 million in combined pension and OPEB liabilities.

The City established an irrevocable trust fund in June 2009 to begin prefunding the City's unfunded OPEB liability.

The City's pension indicators, which include the City's employer contribution compared to the actuarially determined contribution, the City's total covered payroll, and the contribution rate as a percent of covered payroll, are presented in Figure 95.

[123] Source: City of Moreno Valley, 2019-20 Budget

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Figure 95: Pension Indicators - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Actuarially Determined Contribution	$6,385,610	$7,094,031	$7,972,616
Employer Contribution	6,385,610	7,094,031	7,972,616
Covered Payroll	$20,860,026	$21,783,847	$24,175,227
Employer Contribution Rate	30.6%	32.6%	33.0%

Source: 2017-18, 2018-19 and 2019-20 ACFR

The City made employer contributions equivalent to the actuarially determined contribution between 2016-17 and 2019-20. During this time frame, the City's covered payroll increased at an annual rate of about 7.7 percent. The City's employer contribution rate, which ranged from 30.6 to 33.0 percent between 2016-17 and 2019-20, is about average for the County of Riverside, which ranged from 26 to 32 percent over the same period.

Annual Audit Findings

RSG reviewed the City's Annual Audits from 2017-18 through 2019-20. The Annual Audits did not present any findings and the auditor stated that the financial statements present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City. Additionally, the City's Annual Audits between 2017-18 and 2019-20 were awarded Certificates of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association.

California State Auditor Fiscal Health Evaluation

The City of Moreno Valley ranked 281 out of 471 jurisdictions and received an overall risk rating of low. The City is considered higher risk than 190 peer cities in California, or about 40 percent of cities. The City received low risk ratings on six (6) indicators, including liquidity, general fund reserves, pension obligations, pension costs, future pension costs, and OPEB obligations. Two

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

(2) indicators were given moderate risk ratings, including debt burden and revenue trends. Two (2) indicators scored high risk ratings, including pension funding and OPEB funding.[124]

MSR DETERMINATIONS

Requisite CKH determinations for the City of Moreno Valley are presented by topic below:

1. **Population, Growth, and Housing**

   Moreno Valley grew at a slower rate over the last decade, when compared to the County and most other incorporated jurisdictions in the Western Riverside Region. The Moreno Valley population is expected to grow at a rate that is slightly lower than the County-wide growth rate over the next 15 to 25 years. The City did not build sufficient housing units to meet its 5th Cycle RHNA allocation of 6,169 units, falling short by 4,358 units, and the City's 6th Cycle RHNA allocation increased by 120 percent to a total of 13,596 housing units.

2. **Disadvantaged Unincorporated Communities in SOI**

   The City's SOI does not contain any DUCs.

3. **Present and Planned Capacity of Facilities**

   Many of the City's deficiencies identified in the 2006 MSR did not resurface during RSG's research, data collection, and city interview stages.

4. **Financial Ability to Provide Services**

   The City's general tax revenue sources have increased to more than $101.6 million in 2018-19. The City has identified issues with its pension and OPEB liabilities and began to take

[124] Source: California State Auditor, Financial Data for Fiscal Year 2019-20

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

corrective action as early as 2008 with the introduction of an irrevocable trust fund. The City has maintained healthy reserve funds.

5. **Opportunities for Shared Facilities**

   No opportunities for shared facilities were identified.

6. **Accountability for Community Service Needs**

   The City Council is elected according to district boundaries. The City's plethora of boards, committees, and commissions indicates that the City residents are engaged with City government. The City is active across at least five (5) social media platforms and maintains an email list. The City also operates a television channel and has a dedicated media team.

7. **Any Other Matter Related to Effective or Efficient Service Delivery as Required by Commission Policy.**

   The City did not identify any other matters related to effective or efficient service delivery as required by Commission Policy.

SOI RECOMMENDATIONS

RSG's recommendations related to the Moreno Valley SOI are presented by topic below. RSG is not recommending any changes to Moreno Valley's SOI.

1. **Present and Planned Land Uses**

   Large portions of Moreno Valley's SOI overlaps difficult-to-develop and protected land and are unlikely to be developed in the foreseeable future. The southern and southeastern portions of the unincorporated Moreno Valley SOI present the best opportunities for future growth and development.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

2. **Present and Probable Need for Public Facility and Services**

   City staff indicated that the Moreno Valley SOI has adequate public facilities and services.

3. **Present Capacity of Public Facilities**

   City staff indicated that public facilities in the Moreno Valley SOI are sufficient to meet the community's needs.

4. **Social or Economic Communities of Interest**

   The City did not identify any social or economic communities of interest in the Moreno Valley SOI.

5. **Disadvantaged Unincorporated Community Present and Planned Need for Facilities and Services**

   The Moreno Valley SOI does not contain any DUCs.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Monday, June 13, 2022 1:15 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: II Children & Moreno Valley Trade Center's (MVTC) Tuesday June 21st

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon members of the Moreno Valley City Council,

June 13, 2022

Re: Your June 21st public hearing on the Moreno Valley Trade Center (MVTC) and its health impacts on the neighborhood — especially the children.

While the 1.3 million sq ft Moreno Valley Trade Center (MVTC) warehouse has made some changes in their project since December none of them significantly reduce the health impacts to children trying to play in their own backyard — **assuming parents will even allow their children outside knowing the pollution copied below from the MVTC's own documents impact children more than adults.**

EVEN THOUGH THE MVTC MAY HAVE TRIED TO SAFELY FIT A VERY LARGE WAREHOUSE ON LAND ZONED FOR HOMES, ACROSS THE STREET FROM HOMES, AND ADJACENT TO LAND ZONED FOR HOMES **THE FOLLOWING ARE IMPORTANT AREAS THEY HAVE NEVER BEEN ABLE TO COME CLOSE TO MITIGATE** ACCORDING TO THEIR OWN FINAL EIR:

"5.1 Significant Environmental Effects that Cannot be Avoided if the Project is Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, **the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance** after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. **This would be a significant and unavoidable direct impact.**

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* **would be significant and unavoidable** on both a direct and cumulatively-considerable basis.

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOx **emissions would be significant and unavoidable** on a direct and cumulatively-considerable basis.

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG **emissions and would result in a cumulatively-considerable impact to the environment**." (page 5-1 in MVTC Final EIR)

Sincerely,

George Hague

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Sharon Stokes <sasvette69@icloud.com>
Sent: Saturday, June 11, 2022 8:48 PM
To: Sean P. Kelleher
Subject: Fwd: MVTC Warehouse

Warning: External Email – Watch for Email Red Flags!

Sent from my iPhone 13 PRO MAX

Begin forwarded message:

From: Sharon Stokes <sasvette69@icloud.com>
Date: June 11, 2022 at 8:44:07 PM PDT
To: yxstiang@moval.org
Subject: MVTC Warehouse

I am writing this email to voice my objection to the proposed MVTC Warehouse... This property was originally zoned for homes... This development will be located directly adjacent to a housing tract! WTH are you people thinking? Would YOU want this built right next to your home?

Furthermore, the freeway and off ramp areas near that area are already a cluster $&@$ of traffic!!!

STOP before you make our community a place where no one wants to be because of traffic, air quality and warehouses everywhere... no thanks for all the homelessness we are already dealing with!

Don't forget the people who you represent and who voted for you! Quit being manipulated by developers and money...

Sharon Stokes
34 year Moreno Valley resident

Sent from my iPhone 13 PRO MAX

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Debbie Walsh <abilene149@gmail.com>
Sent: Monday, June 13, 2022 2:03 PM
To: Gabriel Diaz; Sean P. Kelleher; George Hague; Dr. Yxstian A. Gutierrez; City Clerk; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Subject: Moreno Valley Trade Center Project
Attachments: MVtradeCenterletterJune13.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Please find the attached letter regarding the Moreno Valley Trade Center Project for the upcoming Council Meeting Tuesday, June 21st.

Please make this a part of the public record.

Thank you.

Debbie Walsh

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

June 13, 2022

Rural Association of Mead Valley (RAMV)
PO Box 2244
Perris, CA 92572

Moreno Valley City Council
Attn: Gabriel Diaz, Associate Planner
Community Development Department
14177 Frederick Street
Moreno Valley, CA 92553

RE: Moreno Valley Trade Center Project including Final Environmental Impact Report (SCH No 20210039038), GPA PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193, and Tentative parcel Map 37836.

Honorable Council Members:

The Redlands Amazon Warehouse along the I-215 Freeway is a Prime example of why this warehouse SHOULD NOT BE APPROVED.

A massive fire broke out Friday morning, June 5 at a distribution center on West Lugonia Avenue in Redlands which shuttered part of the 10 Freeway. (Photo courtesy of the Redlands Fire Department)

This recently built state of the art Redlands warehouse burned to the ground just two years ago. It was 600,000 square feet along the I-10 freeway. Operated by Amazon, this recently built

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

warehouse caught on fire and burned to the ground quickly. Those driving along the freeway could feel the heat from the fire.

The Redlands warehouse was 600,000 sq. ft. and 45 feet in height. The Proposed warehouse is 1,328,853 sq. ft. in size and at least 100 feet in height.

Even though this recently constructed warehouse had the state of the art sprinkler system, it went up in flames quickly and was completely destroyed according to the Redlands Daily news.

> There were about 100 people working inside when the fire was reported about 5:30 a.m., and they all got out safely, city spokesman Carl Baker said.
>
> "It went up really fast, and the whole building was involved," Baker said. He described the damage as a total loss. The damage was estimated at "hundreds of millions of dollars," Baker said.
>
> One focus of the investigation will be why what Baker called "a state-of-the-art" sprinkler system failed to limit the fire's spread. "Obviously, the suppression system didn't work as intended," he said.
> **Redlands Daily News Article**

Redlands City does not have the equipment necessary to fight this type of warehouse. A large number of agencies from other cities and counties were brought in with ladder trucks to fight this Redlands City fire.

Will the fire trucks be tall enough to put water on top of a building 100 feet or more? That is much taller than the 45-foot warehouse that burned down in Redlands. Will there be enough ladder trucks to fight this type of fire with a building 100 feet tall or more? Will there be

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

enough of a setback from the residential neighborhoods if the walls over 100 feet tall collapse during a fire?

How does the City of Moreno Valley plan to fight a fire if one were to break out if this massive warehouse were to be built?

The Rural Association of Mead Valley is opposed to the Moreno Valley Trade Center Project for this and the following reasons. This Project is for a proposed 1,328,853 square foot Industrial warehouse building up to 100 feet in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map (PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

The Project requires a General Plan Amendment and Change of Zone from Single Family Residential land with animal keeping, a rural land use, to Industrial Zoning. This massive Industrial Project is not compatible with the surrounding residential neighborhood. The General Plan that was just updated includes the Project site as Residential housing. No indications were made during the General Plan update that this area would be changed in the near future from residential to industrial land uses. The MVTC is inconsistent with the recently approved 2040 General Plan which points out that industrial is incompatible with residential zoned areas. Policy LCC.3-2 directs the City to use "development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another". The 2040 General Plan approved in June also requires the city to screen and buffer nonresidential projects to protect adjacent residential property when necessary to mitigate noise, glare and other adverse effects on adjacent lands.

The World Logistics Center and numerous other massive logistics warehouses are set to open nearby this Project location. This Project will add to the tens of thousands of additional truck trips approved on the already gridlocked I-60 Freeway. The unrealistic analysis of job creation assumes that there is a need for additional warehouse workers. The facts are that the current logistics and e-commerce warehouses cannot fill their positions. Where will these tens of thousands of additional workers come from? The best use of this land will be for single-family homes.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

If the Project is constructed and used as an e-commerce fulfillment center the amount of vehicle trips is projected to be more than 5,000 vehicles per day. The MVTC's plan as a warehouse is to allow the southern entrance of the project to allow 1,000's of vehicles to access Encelia Street.

The project is located 118 feet away the nearest family homes Building height 100 feet or more.
This Project is for a proposed 1,328,853 square foot Industrial warehouse **building up to 100 feet** in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay.

Moreno Valley Municipal Code
9.05.040 Industrial site development standards.

A. General Requirements.

B. Special Site Development Standards.
1. When any industrial district abuts a property in any residential district, a minimum building setback equal to the building height, but not less than twenty (20) feet shall be required from such residential district. Further, the then (10) feet of such setback nearest the district boundary line shall be landscaped.

9. In the LI district, industrial and warehouse, structures greater than fifty thousand (50,000) square feet in building area shall be separated from any residential district as determined by an air quality and noise impact analysis. The minimum separation distance for such uses shall be two hundred fifty (250) feet between the residential district and the truck court or loading area.

The developer does not have a tenant for the building.
The Project is proposed to be built under speculation.
The developer has the option of developing this Project as a fulfillment/e-commerce center or logistics warehouse.

The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air 2 Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings. (Page 11).

Moreno Valley is one of the areas designates as a Disadvantage Community under 5B S35. Adding thousands of additional logistics trucks to this community will greatly impact the health of over 100,000 residents living in your community.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

The Environmental Justice Element is now required by the State to be a part of all General Plans. The City must "minimize any potential health risks" of new development on adjacent sensitive receptors and "designated truck routes that avoid sensitive land uses" (Policies EJ.1-3 and EJ. 1-9). The City must create a substantial buffer between homes and the warehouse. Screening must be installed along the southern and western boundaries of the Project. All truck parking and docks must be located on the north side and east side of the Project away from residential neighborhoods.

Although the Project has a number of entrances most warehouses use just one driveway for trucks to enter and exit, thereby reducing staffing to one gate. The Project does not have sufficient room at any of the entrances to prevent trucks from backing up onto Eucalyptus Ave.

The Project must include a substantial amount of solar power, especially if used as an e-commerce business. The current power grid is not sufficient to produce enough electricity for the current customers. The drain on the power grid during summer months produces frequent brown outs throughout Southern California.
A large warehouse in the City of Perris recently had a large explosion from a large propane tank. This warehouse is next to residential homes. The blast from the explosion could be seen and heard from miles away. No propane tanks should be installed and used on warehouse sites. All forklifts, Goats, and equipment should be electric powered.

The Project is located in an area with the worst smog in the nation.

This Project will increase greenhouse gas levels that are already impacting Communities in Western Riverside County. Mead Valley is also a disadvantaged community. The impacts warehouses in Moreno Valley and Perris are having negatively impacts to the entire region. The I-215 Freeway is congested for most of the day. The I-60 Freeway is congested with thousands of trucks. This backs up traffic throughout the region. Trucks are now using residential streets to avoid the congested freeways. Cajalco Road is backed up bumper to bumper during the day. Trucks are using Van Buren, Alessandro and Cajalco to get to the I-91 to get to the Ports. Our freeways cannot add tens of thousands of additional trucks and cars from any new warehouses without severe gridlock to our freeways.

5.1 SIGNIFICANT ENVIRONMENTAL EFFECTS THAT CANNOT BE AVOIDED IF THE PROJECT IS IMPLEMENTED

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

• **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.

• **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOX) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.

•**Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOX emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOX emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

• **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

RAMV is opposed to the **Moreno Valley Trade Center Project** that will impact the entire region. We cannot afford to turn anymore of our residential zoned areas into Industrial zoned areas. Our freeways are already at capacity, our air quality is already the worse in the nation, and our local roads are already being destroyed by truck traffic. Please consider all of the impacts that this Project will bring to not only Moreno Valley, but the entire region.

I urge the City Council to follow the Planning Commission's recommendation and deny this Project.

Sincerely,

Debbie Walsh

Debbie Walsh

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Joe Bunker <bunkerjl@gmail.com>
Sent: Monday, June 13, 2022 2:56 PM
To: Dr. Yxstian A. Gutierrez; David Marquez; Ulises Cabrera; Edward A. Delgado; Elena Baca-Santa Cruz; Gabriel Diaz; Sean P. Kelleher
Cc: Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; 'DAMON FOREMAN'; darricgs400@gmail.com; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jsims@rcsd.org; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; VERONICA Ramos
Subject: Moreno Valley Trade Center Public Hearing on June 21, 2022

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

Please include these comments as part of the record for the above mentioned public hearing. I represent the Valley Springs HOA which borders Encelia Ave., the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicants appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

Thank you,

Joe Bunker
Valley Springs HOA
Warehouse Chairperson

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Lindsay Robinson <lr92555@gmail.com>
Sent: Tuesday, June 14, 2022 1:10 PM
To: David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk; Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Sean P. Kelleher; Gabriel Diaz
Subject: MV Trade center concerns
Attachments: June 14 MV Trade Center.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

To whom it may concern,

Please accept my attached document regarding my opposition to the MV Trade center that is being brought forward again.

This project does not belong next to our homes and needs to be denied.

Thank you.

Lindsay Robinson

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

June 14, 2022
Moreno Valley Trade Center Round 2

To whom it may concern,

Please enter this into the Moreno Valley Trade Center Packet along with the additional documents as the previous concerns still apply.

I still believe that the mayor was allowed to act inappropriately when he tabled the discussion prior to voting when he saw he was not going to get his way.

The developer lied when he said that our school superintendent Kedzoira provided a letter of support for the project. Many of us were in disbelief and Mr. Kedzoira confirmed that he did NOT support this project or other warehouses. He thanked them for their donation (bribe) to the school wellness center. This should remind you all of the felony conviction Alex Ramirez received for the fraudulent letters of support for the Ironwood Village project. Superintendent Kedzoira is very well respected and this lie tarnished his reputation for many people and a public apology is warranted. The magnitude of this lie should be reason enough to vote no and black list Hillwood from the city.

Mr. Gutierrez sent out many glossy mailers as well as inundated residents with campaign calls. **One such call stated that he does not approve of warehouses near homes/residential areas**. That's great news for the residents as it means he will not approve this project.

Campaign mailers from most of you all say you're going to bring better businesses and high paying jobs yet what we see are warehouses, gas stations and fast food. Once elected the promises fade away. Let's start honoring your promises and bring those high paying jobs and better businesses. Moreno Valley could be so much more than what it's been doomed to.

Our General Plan Update has recently been completed and rezoning projects should not be coming forward to soon especially one as hypocritical as this that takes residential land away. The city's excuse for destroying the community character of the NE by letting Chung rezone R2 to R10 was that we needed more homes to meet state mandates therefore residential land should not be rezoned to warehouses.

Why hasn't Hillwood said where the residential R2 PAKO homes will be relocated as required by law?

Hillwood's presentation admitted they have no tenant thus all of the estimates could be way off regarding traffic, noise, pollution. It's a spec building and thus needs to be denied.

Have any of you sat and watched trucks navigating Benzeevi's absurd roundabout? It was clearly not designed for large trucks so now more trucks are heading west thru the auto mall to Moreno Beach which could be a violation of the Prologis agreement that all

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

trucks go east to Redlands. This roundabout will not be able to handle trucks from this project as well as wlc so where will these trucks illegally drive? We aren't getting sufficient truck enforcement nor traffic patrols in the east end as it is.

Has our municipal code for noise been amended yet to require warehouses shut down from 10 pm to 7 am if they're next to homes? If not, this project needs to be denied.

This project's EIR has too many significant negative impacts that severely harm the residents' health and quality of life. For too long the city flippantly over rides these severe impacts. There are laws that are supposed to protect us from these travesties. For too long now the city staff have wantonly used the "override" to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University*, 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. "CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project's benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

5.1 Significant Environmental Effects that Cannot be Avoided if the Project is

Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOx emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

The wlc is 10% of our city's land due to Benzeevi's ability to buy off our former council/pc members. Any future warehouses need to be placed on wlc land and not next to homes. Let Hillwood negotiate with Benzeevi to place his warehouse there perhaps next to Alessandro that they wish to pave. Other warehouses near homes have already been approved. Please ask how much total land is now warehouses in our city and say enough is enough. None of you would enjoy living next to a warehouse so don't inflict this on the established residents. Other cities have imposed moratoriums on warehouses and it's time Moreno Valley does the same. Put the residents health and quality of life first!

Dear Council members,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Please respect the residents and the planning commission decision and vote NO on the Moreno Valley Trade Center. The 2006 general plan as well as the current mayor appointed planning commission realized that warehouses do not belong next to our residential homes.

This area of Moreno Valley was renamed to Rancho Belago and it was touted as the "Beverly Hills" of Moreno Valley complete with matching signs. Unfortunately thru less than ethical processes the warehouses to the east of these homes were approved. These residents do not deserve to now be surrounded on two sides with warehouses and 24/7 noise, traffic, light and air pollution.

The Hillwood presentation tries to depict a rosy picture but the reality is that the warehouse does not belong there. They have no tenant so all the data on traffic and noise they are providing is irrelevant.

Redlands south of Eucalyptus is not a truck route yet they have a truck entrance near the south end of the building near Encelia. There is no proposal to change the truck route, so they will be breaking the law.

An incredible amount of traffic will be using Encelia to exit the project during shift changes yet no street light was proposed. If it becomes an Amazon distribution center their vehicles will be invading the residential streets to reach Redlands.

Some of the houses will receive air filtration systems therefore they acknowledge the severe negative impact of their pollution. If air filtration is needed in the homes how will they protect the kids/adults who are playing and working outside? A yes vote means you really don't care about the health of the residents.

This project has a long list of money they're "donating" to different causes. Sure looks like Pay to Play if not bribery.

Unless there is a point of sale, the revenue the city may get is not worth the damage they will do.

Jobs- there will be many more jobs associated with building the 148 homes and more long term jobs. 148 homes will need upgrades, repairs, landscape maintenance etc for many years to come and will employ a large variety of tradesmen.

This warehouse hopes to remove approximately 148 half acre principal animal keeping homes at a time when the city claims we need more homes. The pandemic has shown us that people and especially children need space and yards to play thus the R2 PAKO zoning must remain especially as your new GPU allowed Nelson Chung to rezone our R2 PAKO land north of the freeway to his preferred R10 (Pay to Play goes full circle).

The Hillwood presentation talked about moving the 148 PAKO homes to another area but did not say where. It's my understanding they are supposed to show the new location for the displaced residential land. Where else in the city will they put those homes?

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Noise- the city needs to amend their municipal noise ordinances to include warehouse noise. Warehouses in or near residential homes need to cease operation from 10 pm to 7 am. Just as loud parties, construction, yard equipment noise is restricted so must the warehouse noise. A perfect example is the horribly designed paper company building that the city approved that disrupts sleep and forces residents to keep their doors and windows shut all day to avoid the obnoxious droning. Would any of you want to have a generator running in your front yard all night? I don't think so and the excuse that it's "within acceptable limits" is absurd. None of you would find it acceptable so don't force it on us. Beeping trucks all night long is also disruptive and needs to cease.

One of the items they bragged about was paving Alessandro thru the wlc property- something Mr. Benzeevi is responsible for and won't help the city since Mr. Benzeevi intends to close Alessandro east of Merwin thru his property and the city signed off on it. Cactus will become the through street.

This warehouse appeared as a done deal on the maps shown during the public GPU meeting. An astute resident noticed it as the project had not come forward yet. The GPU consultant stated that city staff informed him it was already approved. So once again the city promoted a project that had not come before them yet just as was done years ago for wlc.

There is not sufficient data regarding the compounding effect that residents will suffer if both the wlc and the trade center are developed. The wlc will be bad enough, don't compound it. Vote NO on the mv trade center.

The 2006 general plan and the current planning commissioners did the right thing. They protected the residents from a warehouse next to their homes. They chose to value the residents' health and quality of life over a quick profit for a developer.

People choose to live in areas that suit their interests and income levels. No one I've met chooses to live next to a warehouse and no city should rezone residential property near existing homes to warehouses. The city has made many horrible decisions with regard to warehouses don't let this be one of them.

I doubt any of you (council, staff, and developers) live next to a warehouse nor would you choose to do so. The negative impacts are too detrimental and can't be mitigated so please vote NO on the MV Trade Center- wrong location and it's your responsibility to make the residents' health and quality of life a priority!

Thank you,
Lindsay Robinson

Moreno Valley Trade Center dEIR concerns

To whom it may (or may not) concern,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Please include this in the public record to voice my concerns on the inadequacy of the draft EIR related to the Moreno Valley Trade Center proposed at a location on Redlands Blvd. south of Eucalyptus.

As with the other warehouse projects, the city staff and developers make light of the significant negative impacts that can't be mitigated and they unethically continue to override them without adequately addressing the cumulative effect of all the previous projects who also had their significant negative impacts unmitigated (pollution, noise, traffic etc.). Some of these projects that directly affect the residents south of Encelia include the wlc, Aldi, Prologis warehouses and the sleep disrupting Solaris paper company and now commercial zoning just north of them. The developers and staff that promote these obscene projects do not live here and leave us to suffer the consequences of their bad decisions and yes outright false data in order to get their projects approved.

Many at city hall have forgotten who they work for- it's the residents not the developers and our health and quality of life should be their priority, not the financial enrichment of developers. Would the city staff and developers want this to happen where they live- have their views blocked, breathe bad air, have non-stop truck traffic 24/7 disrupting their sleep with beeping and brakes noise etc.? People moved out here for the larger lots, animal keeping, quiet, night skies, low crime to name a few. We poured our life savings into purchasing our homes in an area we researched and thought was the right place for our families. Warehouses were never intended out here and especially the encroachment into residential areas as the MV Trade Center intends to do. The 2006 comprehensive general plan protected the residents, the new plan does not.

This project was already included on the general plan update as a done deal. It was on the map and consultant thought it was already approved. How did that happen when it hadn't even come forward yet? Again underhanded action at city hall just like when the city promoted the wlc prematurely. This warehouse does not belong here and needs to be eliminated.

The land that this abomination intends to rezone is resident R2 with animal keeping rights. The city keeps whining about losing control if they don't meet certain housing numbers yet they want to remove residential land in favor of another warehouse. They just allowed Chung/Benzeevi committee to remove more animal keeping residential land so we need to preserve what is left. The city needs to stop contradicting themselves and using RHNA when it suits them. DO NOT ALLOW THIS LOSS OF RESIDENTIAL LAND FOR ANOTHER WAREHOUSE ENCROACHING INTO AN EXISTING NEIGHBORHOOD!

Their traffic studies and analysis contain many areas that need to be addressed more completely and false data/info removed. Encelia is not a high traffic street and is not a truck route and should never become one. **Why have the traffic numbers been**

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

inflated for Encelia **to make it seem like all the project driveways won't impact the residents??**

This project intends to direct a huge amount of traffic onto a quiet street and onto Redlands. Redlands Blvd south of Eucalyptus is NOT a truck route although large numbers of trucks break the law daily.

This study seems to assume that Encelia and Redlands will be ok for their trucks when they are not truck routes. **Why hasn't this study adequately addressed the illegal trucks using Redlands Blvd south of Eucalyptus? Will this project pay for additional police patrols to stop the illegal truck traffic?** The trucks going south **on Redlands to Cactus will** have **severe negative impacts on the other** housing **tracks along Redlands and Cactus so why isn't this addressed satisfactorily? These large trucks also destroy our roads much quicker than passenger vehicles- will this project (and wlc) be held accountable in paying for the damage to our roads? It has been mentioned that this will be another Amazon distribution center, if so is their adequate parking and law enforcement for all their small delivery trucks?** We have Amazon in our city already and do not need another. Their drivers are dangerous and invade neighborhoods parking their vehicles off the premises. Again, all these neighborhoods will suffer compounded health and quality life issues associated with adding another warehouse to their already affected community. **Will this project finance the additional police we will need to protect our residents from all these negative impacts associated with our residential road use?**

Employee traffic- we all know that people look for quicker routes to and from their destinations. **How will you protect the existing residents from excessive employee/truck traffic through their quiet neighborhoods?** Non-residential traffic is much more dangerous than residential. **How will you stop employees from parking in our residential neighborhoods? Where are the safe guards and the non-residential traffic noise, dangerous driving, pollution needs to be addressed not over ridden.**

Why have the safe equestrian trails been eliminated from this study? Our master planned trail system includes a safe equestrian overpass at Theodore and it should be down Redlands (and Theodore) to connect with Lake Perris. Only pedestrian and bikes get mentioned.

Aesthetics-The 2006 general plan included many more protections to our residents that this project will destroy. The wlc high cube warehouses will obstruct the resident's wonderful views to the east and now this project will obstruct their views to the north. Just another severe negative impact that is compounded by other projects that have already been approved. Loss of the substantial views to east is bad enough so do not allow this project to obstruct their remaining views. **Why isn't the city protecting the residents better rather than over riding this compounded severe negative impact?**

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Pollution- the city and out of town developers continue to play Russian roulette with our health by approving unlimited warehouses to encroach into our residential areas. There are so many studies already done that show the damage done to our lungs from diesel and other fuels- especially the young and seniors. **Why didn't this EIR address the NOx pollution that will be associated with the project operation? Along with air pollution there will be substantial noise and light pollution 24/7 that are not adequately addressed- will the truck noise and lights be stopped at 10 pm as other activities need to? Will the city finally address this issue and amend our noise ordinance to include warehouses in residential areas?** The beeping trucks at skechers all night have disrupted sleep of those who live north of it and since it opened they haven't been able to sleep with their windows open. Since the paper company opened the noise has disrupted both daytime and night time sleep and that should not be allowed to occur with any more warehouses. **Why hasn't the compounded effect been addressed adequately to include the injustice that this neighborhood will suffer from with the already approved wlc? Do NOT claim it doesn't need to be addressed!**

Water- I don't believe that the EMWD is being truthful on being able to supply water to all these projects coming forward- wlc and the commercial north of the freeway will suck up so much water. I was appalled to read that they will dig a well for their project and suck out the aquifers which aren't getting adequately replenished during so many years of drought. The Festival also dug a well recently and will also be taking aquifer water. We have residents whose property relies on well water that these projects may deplete. **Where are the safeguards for these residents? Why was there no research and data collected on what happens when excessive underground water is removed? How much water will they be pumping from their well? When the underground water is pumped out, the ground will settle and homes could start sinking and sink holes could develop on our roads. Will this project be responsible later down the road for all the damage they've done? This well pumping by warehouses should NOT be allowed and certainly without safe guards and restrictions.**

Jobs- once again the promise of jobs is bandied about to entice people to like this project. The 2006 and 2021 general plans as well as city propaganda every year promise to bring high paying jobs to Moreno Valley so people don't have to commute. Warehouses do not bring those high paying jobs promised. This project like the wlc will swallow up in huge amount of valuable land for a small number of jobs that are not high paying. **What guarantee is there that there will be 2000 permanent high paying jobs? Why hasn't the city learned from past lies from developers in order to get their project approved (skechers/benzeevi promised thousands and did not deliver)?** Warehouses and even trucks are becoming more automated, therefore less jobs and most are temporary. **Why do you keep bringing up the commuting issue when it's been shown that our resident commute times are on average or less than surrounding communities?** In fact the majority of city staff commute into Moreno Valley to work so it is a non-issue intended to instill fear. **Why does the city staff**

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

continue to condemn our residents to low paying warehouse jobs? We deserve better.

For too long now the city staff have wantonly used the "override" to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University*, 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. "CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project's benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

Now with CEQA in play, the city/developer try to claim that rejecting the project and leaving the zoning as is will result in the same if not more severe negative impacts that just leave me speechless. With RHNA in play we need these residential homes- especially as the pandemic has shown kids and adults need larger yards to play in to remain safely distanced. Our large lot neighborhood home sell quickly and are in demand so we need to keep our R2 designation. The **NO PROJECT ALTERNATIVE** is the correct selection and the MV TRADE CENTER needs to be denied.

Our city has been overwhelmed by warehouses and at this point there needs to be a moratorium. No more warehouses and we need more open space per the law. The compounded effects are real and dangerous and should no longer be ignored.

As residents we don't have investor money to afford legal services and PR staff the way developers do. Our hard earned money went into purchasing our homes in a place chosen that suited our life styles. We moved further out of town to larger lots, space, low crime, night skies, views etc. and trusted that our city government would actually work to protect us as city governments were set up to do. Staff and elected officials take ethics training and oaths of office to do so. Unfortunately developer money has completely corrupted our system of government and the residents have not been protected. Rejection of the Moreno Valley Trade Center will be the start to reverse prior environmental injustices inflicted on the tax paying residents of Moreno Valley.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Thank you,

Lindsay Robinson

Resident of Moreno Valley

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Eric Esquer <eesquer31@gmail.com>
Sent: Monday, June 13, 2022 6:43 PM
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Sean P. Kelleher
Subject: Moreno Valley Trade center concern

Warning: External Email – Watch for Email Red Flags!

To whom it may concern:

My name is Eric Esquer. I am concerned about the rising inflation and its effects on government cost for the public improvements and wages. The Consumer Price Index shows an inflation rate of almost 6% per year, and the costs of public improvements is up almost 9% according to the Engineering News Record. And based on my personal household expenses I expect the inflation rates are even higher.

While I think President Biden is trying to slow the inflation rates, it's likely won't be slowing down anytime soon. Even the Federal; Reserve Board recently admitted they were wrong when they said inflation was "transinary" and would go away in 2022. Admittedly, it has been here for some time.

This inflation will result in higher payroll cost and the cost of pavement, storm drains, irrigation lines, and general repairs for the city.

One way to pay for the added costs is to support development like the project before you. One that will provide hundreds of high paying union jobs during construction, and over a thousand jobs after its in operation. One that will also pay extreme property taxes, and even sales tax revenue if it is developed for a retail operation.

I hope that the council will consider these factors in their deliberations.

Thank you for your time,

Eric Esquer

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Aldo Schindler; Manuel A. Mancha
Subject: FW: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Amanda Kirby <amandalynnekirby@gmail.com>
Sent: Monday, June 13, 2022 6:43 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Subject: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you,

Amanda

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Manuel A. Mancha; Aldo Schindler
Subject: FW: Vote Yes for the Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: adam stephens <adamjpstephens@gmail.com>
Sent: Tuesday, June 14, 2022 10:13 AM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Subject: Vote Yes for the Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the World Logistics Center and it is 40 times larger than this project.

Thanks,
Adam

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Linda M Castellano <linda@lindacastellano.com>
Sent: Tuesday, June 14, 2022 4:52 PM
To: Dr. Yxstian A. Gutierrez; Ulises Cabrera; Edward A. Delgado; David Marquez; Elena Baca-Santa Cruz
Cc: Gabriel Diaz; Sean P. Kelleher
Subject: Proposed Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Good evening Mayor Gutierrez, Council Members Ulises Cabrera, David Marquez, Ed Delgado and Elena Baca, I send this email to implore you to vote NO on the proposed Moreno Valley Trade Center. The land is zoned for homes, not warehouses. We have enough warehouses in Moreno Valley along with already heavy diesel truck traffic on the freeway and not to mention up and down Ironwood Blvd! Building this massive warehouse will only bring more truck and more pollution! We already have an air pollution problem with the existing diesel truck emissions. Building the MVTC would bring thousands more diesel trucks and even more pollution that is not good for us that live here and the children that go to schools here.

Vote your conscience and vote NO on the MVTC!

Northeast Moreno Valley Resident,

Cipriano and Linda Castellano

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Jerry Stephens <jerry@div-re.com>
Sent: Tuesday, June 14, 2022 4:21 PM
To: Gabriel Diaz
Cc: Steve Quintanilla; Aldo Schindler; Manuel A. Mancha; Sean P. Kelleher; Mindy Davis; Julia Descoteaux
Subject: RE: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

Warning: External Email – Watch for Email Red Flags!

Hi Gabriel,
Thanks for responding ! Yes , the revenues and extra sales tax generated from this project and its employees shopping in MV will help maintain the City Staffing levels at City Hall and Public Safety . It would be a disaster to have to cut City Staff/Public Safety levels if we cant keep up with the inflationary spiral we are witnessing now. We don't want to become another San Bernadino . I am very proud of the 20,000 new jobs and industrial tax base that has come to MV in recent years from the hard work of the City Staff and developers . I am very proud to have been a part of that effort ! Lets approve this great project and keep moving forward . We cant let those with no vision or common business sense bankrupt our great City . Vote YES for the MVTC !

Thank you,
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com

From: Gabriel Diaz <gabrield@moval.org>
Sent: Tuesday, June 14, 2022 3:49 PM
To: Jerry Stephens <jerry@div-re.com>
Cc: Steve Quintanilla <steveq@qalawyers.com>; Aldo Schindler <aldos@moval.org>; Manuel A. Mancha <manuelm@moval.org>; Sean P. Kelleher <seanke@moval.org>; Mindy Davis <mindyd@moval.org>; Julia Descoteaux <juliad@moval.org>; Gabriel Diaz <gabrield@moval.org>
Subject: RE: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

Hello Mr. Stevens,

Thank you for your email. We also received your previous email. Would you like to add or intended to add anything additional to this new second email?

Thank you,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel

Gabriel Diaz
Associate Planner
Community Development
City of Moreno Valley
p: 951.413.3226 | e: gabrield@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITE
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSA
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: Jerry Stephens <jerry@div-re.com>
Sent: Tuesday, June 14, 2022 2:08 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>; Gabriel Diaz <gabrield@moval.org>; Sean P. Kelleher <seanke@moval.org>; City Clerk <cityclerk@moval.org>
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST

Warning: External Email – Watch for Email Red Flags!

Thank you
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Mike Lee
Sent: Tuesday, June 14, 2022 10:14 AM
To: Sean P. Kelleher; Aldo Schindler; Manuel A. Mancha
Subject: FW: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Mike Lee
City Manager
City Manager's Office
City of Moreno Valley
p: 951.413.3020 | e: mikel@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Jerry Stephens <jerry@div-re.com>
Sent: Monday, June 13, 2022 5:16 PM
To: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Edward A. Delgado <edd@moval.org>; Ulises Cabrera <ulisesc@moval.org>; David Marquez <davidma@moval.org>; Mike Lee <mikel@moval.org>
Cc: Jerry Stephens <jerry@div-re.com>
Subject: Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you,
Jerry Stephens

Diversified Realty, Inc
Land/Development
Cell-Text # *(951) 567-3849*
Email: JerrypStephens@Gmail.Com

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Catherine Losee <catherinelosee@gmail.com>
Sent: Tuesday, June 14, 2022 4:52 PM
To: Dr. Yxstian A. Gutierrez; City Clerk
Cc: Gabriel Diaz; senke@moval.org
Subject: Our concerns of the Moreno ValleyTrade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

With great respect, I want to remind you that you were elected to serve your district and the people of those respected communities. I find it disappointing that you don't respect the voices and the values of the folks you are supposed to serve. I'm talking about warehouses, changing the general plan to put warehouses in and near schools and neighborhoods. With an infrastructure that can barely support the terrible traffic that exists currently. Yes we live in the northeast, yes, yes we opposed the Benzeevi plan(WLC) to put 700 football fields in warehouses. encroaching on neighborhoods, so it's scaled down HA! The city did not do its research and gave everyone false information and had to spend lots of taxpayer money on lawsuits. But you still want more warehouses ! I have done my research . The Inland Empire is already saturated with warehouses many not even filled We have warehouses right across the freeway, the Solaris paper company and signage that lights up at night shining down on our neighborhood (yes we also have the Moreno Valley Auto Center signage too) Solaris the paper company has this drone noise that disturbs sleep. Folks bought here in our particular area for the big lots and larger homes and the quiet lifestyle. We, my husband and I as well as other residents(I have been told don't want changes) are Not opposed to changes. We have a nice shopping area, Stoneridge and Moreno Beach shopping area, the University Health Systems on Nason just to name a few. Are you all so unimaginative that you can only think about developers' money and warehouses on the beautiful empty land that surrounds us, or is it politics as normal like Councilmen Co,.our city was on the national news for all the wrong reasons. Why not developers that could build parks in the neighborhoods for the children and libraries, tech schools for young people that want to learn different life skills. The promise of jobs from the warehouses is very misleading and the city doesn't make a dime unless the point of sale is in our city and empty warehouses a blight on our city

DO NOT USE OR CHANGE THE RESIDENTIAL LAND THAT SURROUNDS OUR NEIGHBORHOOD AND OTHER EXISTING NEIGHBORHOODS WITH ANOTHER WAREHOUSE / MORENO VALLEY TRADE CENTER.

Thank you for taking the time to read my letter

Respectfully,

Catherine & Richard Losee
12433 Prairie Wind Trail.
Moreno Valley, CA. 92555

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Sean P. Kelleher
Sent: Tuesday, June 14, 2022 3:57 PM
To: Gabriel Diaz
Cc: Steve Quintanilla; Mike Lee; Aldo Schindler; Manuel A. Mancha; Mindy Davis; Julia Descoteaux
Subject: FW: MVTC warehouse proposal

Gabriel,

Please add this to the record you are creating. I have already responded to Ms. Blua as she emailed me directly.

Thank you

Sean

Sean P. Kelleher
Planning Division Manager/Planning Official
Community Development
City of Moreno Valley
p: 951.413.3215 | e: seanke@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITE
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSA
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: biancablua <biancablua@gmail.com>
Sent: Tuesday, June 14, 2022 3:44 PM
To: Sean P. Kelleher <seanke@moval.org>
Subject: MVTC warehouse proposal

Warning: External Email – Watch for Email Red Flags!

Dear Mr. Kelleher,
Please include my concerns on the June 21st City Council Agenda.

I am contacting you in regards to the MVTC proposal. I have already expressed my concern to this project in front of the city planning committee, which voted it down. I am now expressing my concerns to you.

With a Ph.D. in Environmental Toxicolgy I know that increasing the amount of diesel trucks on our roads will increase the amount of air pollution in the area. Diesel trucks spew out particulate matter which causes asthma, cancer, and brain damage. By voting for this proposal you are sentencing Moreno Valley residents, and children in particular, to an unhealthy life.

Please vote NO on the MVTC proposal to allow our dreams to soar.

With Gratitude,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Bianca Blua, Ph.D.
Retired Educator
11580 Steeplechase Dr.

Sent from my Metro by T-Mobile 5G Device

Sent from my Metro by T-Mobile 5G Device

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Marcia Narog <mgnarog@gmail.com>
Sent: Tuesday, June 14, 2022 2:38 PM
To: elanab@moval.org; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; City Clerk; Gabriel Diaz; Sean P. Kelleher
Subject: MV Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Just STOP this insanity and stop approving more warehouses!!!!! I don't have the time or desire to keep telling all of you that we hate the warehouses that we already have for many good reasons. We have more warehouses than any sane community needs. And surely we don't need more! We had the "planned" warehouse district designated in the southern part of the city. Then the council approved the WLC on the East side of the city because of the whims of ONE developer. Warehouses are now popping elsewhere too (e.g the center of town--Heacock & Hwy 60). Enough already!!!! What is wrong with you all thinking this is a good thing for our city! They are ugly, poor investments, unhealthy for our residents in many ways and have already negatively impacted our lives, our quality of life , our vistas, etc. When are you going to start to represent the best interests of your voters and citizens? DON'T keep torturing us like this!!! VOTE NO to the MV Trade Center!!!!

Sincerely and disgustedly,
Marcia Narog

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Tuesday, June 14, 2022 5:00 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher, City Clerk
Subject: Moreno Valley homes/families/streets & SR-60 & I-215 are already impacted by warehouse diesel trucks & their harmful pollution -- Why add the MVTC?

Warning: External Email – Watch for Email Red Flags!

Good afternoon City Council members, June 14, 2022

Re: **Moreno Valley homes/families/streets & SR-60 & I -215 are already impacted by warehouse diesel trucks & their pollution.**

Moreno Valley residents are having their Homes and Families Streets impacted by diesel Trucks and their Harmful Pollution

Local Streets and SR-60 and I-215 are re becoming more and more impacted/clogged by Diesel Trucks and Their Harmful Pollution.

The following are some of the city's approved warehouses which have not been built.

The World Logistic Center 40 million sq ft warehouse = across the street from homes is approved with more than **11,000 Daily Diesel Truck Trips and more than 50,000 other Daily Vehicle Trip**

The Moreno Valley Business Center warehouse/diesel truck traffic is approved = across the street from homes will be impacted by Harmful Diesel Pollution & Traffic.

The Compass Danbe Centerpointe warehouse is approved = across the street from a school, homes and apartments where Diesel Truck Trips/Traffic and their Harmful Pollution will impact Families.

Our City IS NOW PROCESSING THE FOLLOWING THREE WAREHOUSES NEAR HOMES WHERE DIESEL TRUCK TRAFFIC WILL CLOG OUT STREETS AND IMPACT THE HELATH OF OUR FAMILIES— all require changes in our new General Plan to allow warehouses.

The 1.3 million sq ft Moreno Valley Trade Center (MVTC) is across the street from an existing neighborhood and adjacent to land zoned for more homes. All of the changes in the project's changes since December have not significantly reduced its toxic pollution which will impact the health of many families and the impacts to Redlands Blvd roundabout/traffic. Vote No on this poorly placed Warehouse.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

The Heacock Commerce Center warehouse is only 20 feet from homes and across the street from others. Their Diesel Truck traffic and its Harmful Pollution will impact these families and our City's roads.

The Edmont commerce Center Warehouse is only 10 feet from homes and across the street from others. Their Diesel Truck traffic and it Harmful Pollution will impact these families and our City's roads.

PLEASE DENY THE MORENO VALLEY TRADE CENTER (MVTC). OUR FAMILIES AND LOCAL STREETS AND SR-60/I-215 CANNOT HANDLE THE IMPACTS FROM THIS POORLY PLACED WAREHOUSE.

Sincerely,

George Hague

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 7:13 AM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Impacts to children & their families & those using Redlands Blvd by the MVTC

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good morning city council members, June 15, 2022

Re:Impacts to children & their families & those using Redlands Blvd caused by the Moreno Valley Trade Center (MVTC) — **even with revisions**.

THE AIR POLLUTION CAUSED BY THE DIESEL TRUCKS FROM THE 1.3 MILLION SQ FT MORENO VALLEY TRADE CENTER (MVTC) WILL STILL IMPACT THE NEARBY FAMILIES. REMEMBER IT IS NOT HOW FAR THE BUILDING IS AWAY, BUT THE PATH THAT DIESEL TRUCKS USE AND IDLE. **THE RECENT REVISIONS TO THE WAREHOUSE PLANS STILL ALLOW THE POLLUTION TO EASILY REACH THE CHILDREN — ESPECIALLY IF THEY TRY TO PLAY OUTSIDE IN THEIR YARDS. THE EXISTING ZONING FOR HOMES WOULD NOT CAUSE THESE PROBLEMS.**

THE MVTC'S DIESEL TRUCKS WILL ADD TO THE INCREASING CONGESTION AT THE INADEQUATE ROUNDABOUT ON REDLANDS BLVD AS WELL THE POORLY DESIGNED AND OUTDATED SR-60 INTERCHANGE. THERE COULD BE A DIESEL TRUCK TRYING TO USE BOTH AT LEAST EVERY MINUTE DURING DAYLIGHT HOURS. **THE RECENT REVISIONS WILL DO VERY LITTLE TO REDUCE TRAFFIC. THE EXISTING ZONING OF HOMES WOULD NOT CAUSE THESE PROBLEMS.**

THE DEVELOPER STILL WANTS THIS PROJECT TO BE A FULFILLMENT CENTER WHICH WOULD RESULT IN A BUILDING OF MORE THAN 100 FEET. IT IS NOT THE NUMBER OF SQUARE FEET IN SUCH BUILDINGS, BUT THE NUMBER OF CUBIC FEET. **THEREFORE THE PROPOSED VERY SMALL REDUCTION IN SQ FOOTAGE MEANS VERY LITTLE, BUT INCREASING HEIGHT ADDS MANY MORE CUBIC FEET.**

TO PROTECT FAMILIES AND THEIR CHILDREN'S HEALTH FROM THE PROJECT'S DEISEL POLLUTION, TO REDUCE SIGNIFICANT TRAFFIC CONGESTION IN MORENO VALLEY STREETS/SR-60 EXASPERATED BY THIS MASSIVE PROJECT YOU MUST SUPPORT THE PLANNING COMMISSIONS UNANIMOUS VOTE TO DENY THIS POORLY PLACED PROJECT.

THE DEVELOPER'S PROPOSED REVISIONS DO NOT SIGNIFICANTLY REDUCE OR ELIMINATE SOME OF ITS MOST SERIOUS PROBLEMS/IMPACTS TO MORENO VALLEY RESIDENTS, BUT ALLOWING THE EXISTING ZONING FOR HOMES TO REMAIN WOULD.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Sincerely,

George Hague

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 5:30 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Diesel Truck Traffic in Moreno Valley vs the City of Perris

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good evening/morning city council members,

Why does our city continue to bring diesel trucks into our city near homes and on truck routes past schools? The Moreno Valley Trade Center (MVTC) brings toxic diesel pollution very near an existing neighborhood with children. **The elderly and children are the most impacted by diesel pollution.**

The City of Perris leadership is finally realizing the danger they bring to their residents by allowing diesel trucks into and through their city on the approved Mid County Parkway. if you scroll down to the sections just above the picture, you we see they wrote they will "support the parkway — **only if trucks weren't allowed on it**"

The City of Moreno Valley needs to deny the MVTC because it brings diesel trucks very near an existing neighborhood and all the changes made in the project since December will still allow its health impacting pollution to easily reach families — especially those trying to use their yards.

Sincerely,

George Hague

After 20 years and $150 million, will Mid-County Parkway ever be built in Riverside County?

By JEFF HORSEMAN | jhorseman@scng.com | The Press-Enterprise

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

PUBLISHED: April 25, 2022 at 6:04 p.m. | UPDATED: April 25, 2022 at 6:15 p.m.

It's taken almost 20 years and more than $150 million to build a parkway between Perris and San Jacinto.

Despite that, most of the Mid-County Parkway remains on the drawing board — unhelpful to drivers whose limited east-west options include an expressway notorious for fatal crashes.
It's unclear when the 16-mile parkway will ever be finished. Officials with the city of Perris and the Riverside County Transportation Commission are trying to resolve the city's concerns about the project's impact on the city, a situation that frustrates commissioners who thought the parkway was a done deal.

"This is pretty much the big punch in the eyeball when you come back at this stage, $150 million into it and decide now is the time to raise a bunch of issues," Jurupa Valley City Council Member Brian Berkson, a commission member, said at a March 28 meeting.

Perris officials contend the current version of the parkway isn't what the city agreed to, and the city wasn't told of the changes until work started on the first phase, an interchange being built at the 215 Freeway and Placentia Avenue in Perris.

"The concerns related to traffic, air quality, and noise impacts on nearby residential areas, city streets, a fire station, and a local park, remain of great concern for us," Perris City Manager Clara Miramontes wrote in an April 18 letter to the commission, the county's main transportation-planning body. Earlier, Perris raised concerns about the parkway cutting off access to a nearby high school.
On Monday, April 25, a subcommittee of the 34-member transportation commission, which has elected leaders from every city in Riverside County, agreed to delay work on the parkway's Perris segment "until such time that the project is financially and technically feasible," a commission report states. It's not clear when that might be.

Money and staff time for the parkway would be shifted toward another segment of the project as well as work to improve safety on the Ramona Expressway, one of the east-west linkages between the San Jacinto Valley and the county's western half and the subject of heightened traffic enforcement after a series of deadly crashes, including at least four in the past three months.
The subcommittee's vote must be approved by the full commission. That might happen in May.

Home to 2.4 million people, Riverside County is the 10th most populated county in the United States and one of California's fastest growing counties.
Infrastructure has struggled to keep pace with that rapid growth, leading to gridlock as residents lured by the county's cheaper housing commute to jobs beyond the county line.

A longtime challenge has been adding another link between the San Jacinto Valley and the county's western half. Right now, drivers' main options between Hemet/San Jacinto and the 215 are Highway 74 and the Ramona Expressway.

RELATED ARTICLES

- **Truck lanes open on 60 Freeway east of Moreno Valley**
- **60 Freeway closures canceled in Riverside County's Badlands**
- **What lanes can semi trucks legally drive in on Southern California freeways?**
- **Westbound 60 Freeway to close three nights in Riverside County's Badlands**
- **Temecula's Winchester Road to close three nights at 15 Freeway**

The parkway concept sprang from a regional planning effort in the late 1990s that developed a long-term blueprint for growth in the county's unincorporated areas, including a network of reserves to protect endangered species and a

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

vision for new and expanded transportation arteries. At first, the parkway would have one or two lanes in each direction but eventually would have three lanes each way, a commission fact sheet states.

Originally, the parkway would have stretched from the 15 Freeway in Corona to Highway 79 in San Jacinto. But facing rising costs and concerns about building in Lake Mathews and Gavilan Hills, the transportation commission in 2009 cut the parkway from 32 to 16 miles. That meant it would run between the 215 and the 79 and the portion between the 15 and 215 would be scrapped.

The parkway project also required an extensive environment impact report and settled two lawsuits challenging the project on environmental grounds. In all, more than $150 million has been spent so far on the parkway, which includes the cost of getting permits and buying land to offset environmental impacts.

In all, it could cost $1.1 billion to finish the project. The Placentia interchange, which is 70% complete, will cost $42 million.
The commission was set to move forward with the parkway when it received a Feb. 28 letter from Perris.
In it, Perris officials expressed concern the parkway would send traffic through residential streets to connect with the 215. Officials also worried the parkway would sever access to Orange Vista High School, which opened in 2016 after the parkway's environment study wrapped up.
Commission staff agreed to build a bridge undercrossing so students could get to Orange Vista, preserve a local trail and guide trucks to Perris' preferred truck routes, commission Executive Director Anne Mayer said at the March 28 meeting of the commission's subcommittee dealing with road projects in western Riverside County.
But in a March 23 letter to the commission, Perris officials said they would support the parkway — only if trucks weren't allowed on it.

Previous

Next

1 of 3

Riverside County Transportation Commission Executive Director Anne Mayer, seen in 2016, told commissioners that "it would be very difficult" to build the Mid-County Parkway without the city of Perris' support. (File photo by Kurt Miller, The Press-Enterprise/SCNG)

"That is certainly not something that is within the purview of (the commission)," Mayer said.

At the March subcommittee meeting, officials recommended stopping all work on the parkway, except for the Placentia interchange, and shifting parkway funding to other projects.

"At this point, I don't see a path forward given the city of Perris' requirements and issues related to truck traffic," Mayer said. "So it is a difficult recommendation and not one that we make lightly. But we do not believe that we should continue to expend funds on the project if there's not going to be support within the community for it."

Commissioners urged the staff to continue talking with Perris to find a solution.

"To not build what we've spent this amount of money on is crazy," commissioner and Eastvale Mayor Clint Lorimore said. "It is unconscionable to walk away from the investment of $150 million in taxpayer money."

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

In letters sent to the commission since March, Perris — as a condition of supporting the parkway — wants either a series of improvements to Placentia Avenue or upgrades around Redlands, Morgan and Indian avenues.

Commission staff said it could cost $25 million to $40 million to make the improvements Perris wants. Twelve homes would have to be bought from willing sellers — they likely couldn't be acquired through eminent domain — and Perris' option for diverting truck traffic could require more environmental studies, officials wrote in a report to commissioners.

As a result, the commission should focus on other "(parkway) construction packages along the 16-mile corridor to determine if a less complex, less controversial, and less expensive option is feasible," the commission report read, noting the Ramona Expressway's safety problems.

In order for the project to keep its environmental approvals, work must start on a new portion of the parkway every five years, Mayer said Monday.

Berkson, the Jurupa Valley council member, asked last month if the parkway could be built without Perris' permission. Mayer said that the commission could move forward with the parkway because of the project's environmental report, but the commission eventually would need Perris permits to connect to city streets.

"With this level of opposition, it would be very difficult to proceed without the city of Perris' support," she said.

Miramontes and Perris Mayor Michael Vargas, who sits on the commission, said Perris supports the parkway and that measures the city is seeking, such as walls, traffic barriers and landscape signals, are typical for such projects.

"The bottom line is that this project has changed. It's not the original," Vargas said in a telephone interview Friday, adding the city continues to work with the commission.

Last month, Vargas told fellow commissioners: "Times have changed. The high school's now in place. We were able to mitigate that issue. We're basically just stumped with the trucks."

When the parkway was first designed, no one anticipated the Inland Empire would have the truck traffic it has today, Vargas said Monday. He also has noted the project started when most of the current Perris City Council was not in office.

RELATED LINKS

- **Perris bridge over 215 Freeway to close 10 months in first phase of new freeway construction**
- **Riverside County's first new freeway in years could break ground in 2020**
- **TRANSPORTATION: Mid County Parkway moves forward**
- **15 Freeway, Railroad Canyon Road expansion project wraps up in Lake Elsinore**
- **Temecula 'smart freeway' project could improve 15 Freeway commute**

Commissioner and Riverside County Supervisor Karen Spiegel on Monday said she was "very disappointed and frustrated that after 20 years ... this project was moving forward and there was never a comment made until recently."

"You can't because of city council changes and new people .... take a regional project and change the whole direction of it," Spiegel said, adding that without the parkway, the Placentia interchange, which was meant to benefit the region, instead will mainly benefit Perris.

If the parkway is scrapped, Berkson and Spiegel last month raised the prospect of whether Perris could be forced to reimburse the commission for money spent on the project. Mayer replied the commission "doesn't have any mechanisms" to force reimbursement.

The possibility of the parkway not being built "comes as a real shock," Hemet City Council Member Linda Krupa said in March.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

"Moving forward, we do need increased access and safer access (for) traffic into the San Jacinto Valley," she said. " ... And we're growing. And we are growing. And we are growing. And everything that's happening in Winchester, in Hemet, in Menifee, in San Jacinto, all brings more traffic onto two-lane roads."

Staff Writer David Downey contributed to this report.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague <gbhague@gmail.com>
Sent: Wednesday, June 15, 2022 10:32 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Would you like to raise your children near the 1.3 million sq ft Moreno Valley Trade Center with all its diesel polluting trucks?

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good morning Council member,

IF YOU BOUGHT A HOME A FEW YEARS AGO FOR YOUR GROWING FAMILY KNOWING THE GENERAL PLAN SHOWS THE LAND VERY NEARBY IS ZONED FOR HOMES, WOULD YOU SUPPORT A 1.3 MILLION SQ FT WAREHOUSE LIKE THE MORENO VALLEY TRADE CENTER WITH ALL ITS DIESEL TRUCKS IN PLACE OF THOSE HOMES YOU EXPECTED TO BE BUILT?

HOW WOULD YOU FEEL ABOUT THOSE WHO WOULD WANT YOUR GROWING FAMILY TO ACCEPT THE MASSIVE WAREHOUSE AND ENCOURAGE DECISION MAKERS TO VOTE FOR IT AND ALL ITS HEALTH-IMPACTING DIESEL POLLUTION?

PLEASE VOTE TO DENY THE MORENO VALLEY TRADE CENTER JUST AS IF YOUR FAMILY WOULD LIVE ACROSS FROM IT BECAUSE THE CHILDREN OF REAL FAMILIES WILL IF IT IS APPROVED!!!

Sincerely,

George Hague

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Cristina Rivera <crik_8@icloud.com>
Sent: Wednesday, June 15, 2022 8:36 PM
To: Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Cc: movaltradecenter@gmail.com; City Clerk; Gabriel Diaz
Subject: Vote Yes on MVTC and Ironwood Sports Park

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Council member;
I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will bring a new desperately needed sports park to the City of Moreno Valley.
We need more parks with soccer and baseball fields to accommodate our youth and teach them the critical skills of teamwork and respect.

Please vote yes on the Moreno Valley Trade Center so Ironwood Sports Park can become a reality.
Thank vou very much.

Cristina Rivera

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Candice Ulibarri <culibarri@local1184.com>
Sent: Thursday, June 16, 2022 12:43 PM
To: Moreno Valley Mayor
Cc: Gabriel Diaz; Mike Dea
Subject: Support The Moreno Valley Trade Center
Attachments: doc02930120220616095635.pdf

Importance: High

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon,

Please be advised of the attached letter in support of the Moreno Valley Trade Center.

Thank you

Candice Mae Ulibarri
Executive Assistant/
Office Manager
Laborers Local 1184
1128 East La Cadena
Riverside, CA 92507
SERVING SOUTHERN CALIFORNIA AND ARIZONA

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Mayor Yxstian Gutierrez

Subject: Please support the Moreno Valley Trade Center

Mayor Yxstian Gutierrez,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much.

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Mike Dea <msdea@local1184.com>
Sent: Thursday, June 16, 2022 12:51 PM
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: Vote Yes on the Moreno Valley Trade Center - June 21

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Councilmember,
I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, over $6 million annually in revenue to support critical City services, and a new sports park.
As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs, better roads, and a new park to our community.
Thank you very much.

Michael S. Dea
Business Manager Secretary-Treasurer
LiUNA #1184
Serving Southern California and Arizona
1128 E. La Cadena Drive
Riverside, CA 92507, USA
(951) 684-1484 office
(951) 779-1445 Fax
Msdea@local1184.com

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Morquone Jackson <morquonejackson497@gmail.com>
Sent: Thursday, June 16, 2022 2:44 PM
To: Edward A. Delgado; Gabriel Diaz
Subject: Moreno Valley trade center

Warning: External Email – Watch for Email Red Flags!

I am full support the Moreno Valley trade center because they are going spin of millions dollars on my community and they go to build much need it park for my children to play in.

Morquone Jackson
MoVal resident

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Abe Rojas <aberojas.jr12@gmail.com>
Sent: Thursday, June 16, 2022 2:44 PM
To: Edward A. Delgado
Cc: Gabriel Diaz
Subject: moreno valley trade center

Warning: External Email – Watch for Email Red Flags!

i am in full support of the moreno valley trade center project because they are apending millions in my community and they are going to built a much needed park for my children to play in.

abraham rojas jr,
moreno valley resident

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: gabriel madrigal <gmbanshee350@gmail.com>
Sent: Thursday, June 16, 2022 2:50 PM
To: David Marquez; Gabriel Diaz
Subject: The Moreno Valley trade center project

Warning: External Email – Watch for Email Red Flags!

I support This projects is for roads that I drive on parks for somewhere I can take my kids to enjoy them selves keep them out of trouble and jobs for me to work close to home

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: carlos hernandez <los951hernandez@gmail.com>
Sent: Thursday, June 16, 2022 2:51 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley trade center project

Warning: External Email – Watch for Email Red Flags!

Hi my name is Carlos Hernandez and I am in full support of the new project that is upcoming in Moreno Valley.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Frijoles 16 <dfletes140@gmail.com>
Sent: Thursday, June 16, 2022 2:52 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno valley trade center project

Warning: External Email – Watch for Email Red Flags!

I am in full support of this project .I live in the area and this project could not o ly help me but the others around the community!

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: altamirano228@yahoo.com
Sent: Thursday, June 16, 2022 2:51 PM
To: David Marquez
Cc: Gabriel Diaz
Subject: The Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am full support of this project because is a win win situation for all of us as residents. It will be creating a new opportunities for our kids. It will help with their sports activities keeping our kids busy and out of trouble. This will also bring a bright light to moreno valley. People from all over the county will be bringing new money and opportunities.

I am a moreno valley resident.

Lionel Altamirano

Sent from Yahoo Mail for iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Matthew Herron <splathewherron@yahoo.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley trade center project. I am a union worker that lives in the area. We are working towards fixing the roads, adding baseball fields, soccer fields and much more. The only goal is building a better area for the residents.

- Matt Herron

Sent from Yahoo Mail for iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Raul Mendez <king.mendez100@icloud.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Im aware & onboard with the Moreno Valley trade center project, & fully support this project.

- RAUL MENDEZ
Moreno Valley Resident
Local 951 Union Carpenter

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Aldo Garibay <miguelaldogamalu@gmail.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support if this project, this project will bring many jobs and will fix a much needed road work. Plus a park that's much needed.

Miguel Aldo,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Jack Huggins <jhuggins944@yahoo.com>
Sent: Thursday, June 16, 2022 2:55 PM
To: Ulises Cabrera; Edward A. Delgado
Cc: Gabriel Diaz
Subject: Moreno Valley trade Center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon,

I'm writing today to voice my full support for the Moreno Valley trades center project. It is come to my attention that this project will fund repairs to our much damaged roadways and also build a soccer and baseball park. I live close to the project so my children will definitely be playing at that park, and I'm a trades person so there's a good chance I could work in the city I pay taxes in. I urge you to support this project it will benefit me and through me it will benefit Moreno Valley!

Thank you

J

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Daniel Flores <danielflores2k17@icloud.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: the moreno valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

i am in full support of this project because we don't really have parks in our city. it would be great for the community. having soccer fields, baseball fields, basket ball courts and just a place to get away from the city would be awesome. we also need road repair the streets are really bad they have pot holes and cracks and even weeds coming out of them. this project would also bring hundreds of jobs to our community who work here.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Brian Aguilar <brianaguilar811@gmail.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Edward A. Delgado; Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley trade center project full support!!!

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Hi my name is Brian Aguilar Uribe I'm in full support of the new Moreno Valley project and road repair here in Moreno Valley and it going to allow me to work closer to home.

Sincerely,
Brian Aguilar Uribe

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: Moises Benítez <benitezmoise77@gmail.com>
Sent: Thursday, June 16, 2022 2:57 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: The Moreno Valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I support this project, it will bring many jobs and raid repair us a much needed park to my city.

Thank You,
Moises Benites

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Gabriel Diaz

From: jose murillo <jmurillo5740@gmail.com>
Sent: Thursday, June 16, 2022 3:00 PM
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno valley trade center project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Hello I'm a Moreno valley resident near the area Redlands Blvd and I live here most my child hood I haven't seen a new built park in 15 years plus that I've been here I highly recommend you approve this we need more soccer and baseballs fields for our community for our younger generation and heard u guys will be repairing the roads which we've been needing deeply in that area lots of cracks and potholes which would be a plus for our community please recommend on approving this project it could really help our younger generation escape alot of violence and allows them to change and be with there families more sincerely a resident from Moreno Valley Jose murillo

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Ricky Castillo <castilloricky30@gmail.com>
Sent: Thursday, June 16, 2022 3:09 PM
To: Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Dear Council members,

My name is Ricky Castillo out of local 951 and I am a proud union carpenter. I am in support of the Moreno Valley trade center project. As a resident of the Inland Empire I believe it is essential that we continue development and make sure that it is done union. The project will benefit not just those who are able to work on said projects but every single person who lives and visits the community.

Best Regards,
Ricky Castillo

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Gustavo Barraza <gustavo.barraza@icloud.com>
Sent: Thursday, June 16, 2022 3:31 PM
To: Gabriel Diaz
Subject: Moreno Valley Trade Center Project

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley Trade Center Project because of the fact that I live in the city of Moreno Valley along with my spouse and four small children. It has come to my attention that this project will fund repairs to our much damaged road ways, a baseball field, soccer field, and also a tilt up project witch will provide many jobs for our community & union benefit. Thank you for your time and consideration.

Sincerely
Gustavo Barraza

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: altamirano228@yahoo.com
To: David Marquez
Cc: Gabriel Diaz
Subject: The Moreno Valley Trade Center Project
Date: Thursday, June 16, 2022 2:53:02 PM

Warning: External Email – Watch for Email Red Flags!

I am full support of this project because is a win win situation for all of us as residents. It will be creating a new opportunities for our kids. It will help with their sports activities keeping our kids busy and out of trouble. This will also bring a bright light to moreno valley. People from all over the county will be bringing new money and opportunities.

I am a moreno valley resident.

Lionel Altamirano

Sent from Yahoo Mail for iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Matthew Herron
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno Valley trade center project
Date: Thursday, June 16, 2022 2:55:08 PM

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley trade center project. I am a union worker that lives in the area. We are working towards fixing the roads, adding baseball fields, soccer fields and much more. The only goal is building a better area for the residents.

- Matt Herron

Sent from Yahoo Mail for iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Raul Mendez
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley trade center project
Date: Thursday, June 16, 2022 2:55:09 PM

Warning: External Email – Watch for Email Red Flags!

Im aware & onboard with the Moreno Valley trade center project, & fully support this project.

- RAUL MENDEZ
Moreno Valley Resident
Local 951 Union Carpenter

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Aldo Garibay
To: David Marquez; Gabriel Diaz
Subject: Moreno Valley Trade Center Project
Date: Thursday, June 16, 2022 2:55:09 PM

Warning: External Email – Watch for Email Red Flags!

I am in full support if this project, this project will bring many jobs and will fix a much needed road work.
Plus a park that's much needed.

Miguel Aldo,

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Jack Huggins
To: Ulises Cabrera; Edward A. Delgado
Cc: Gabriel Diaz
Subject: Moreno Valley trade Center project
Date: Thursday, June 16, 2022 2:55:13 PM

Warning: External Email – Watch for Email Red Flags!

Good afternoon,

I'm writing today to voice my full support for the Moreno Valley trades center project. It is come to my attention that this project will fund repairs to our much damaged roadways and also build a soccer and baseball park. I live close to the project so my children will definitely be playing at that park, and I'm a trades person so there's a good chance I could work in the city I pay taxes in. I urge you to support this project it will benefit me and through me it will benefit Moreno Valley!

Thank you

J

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Daniel Flores
To: Ulises Cabrera; Gabriel Diaz
Subject: the moreno valley trade center project
Date: Thursday, June 16, 2022 2:56:42 PM

Warning: External Email – Watch for Email Red Flags!

i am in full support of this project because we don't really have parks in our city. it would be great for the community. having soccer fields, baseball fields, basket ball courts and just a place to get away from the city would be awesome. we also need road repair the streets are really bad they have pot holes and cracks and even weeds coming out of them. this project would also bring hundreds of jobs to our community who work here.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Brian Aguilar
To: Edward A. Delgado; Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley trade center project full support!!!
Date: Thursday, June 16, 2022 2:57:12 PM

Warning: External Email – Watch for Email Red Flags!

Hi my name is Brian Aguilar Uribe I'm in full support of the new Moreno Valley project and road repair here in Moreno Valley and it going to allow me to work closer to home.

Sincerely,
Brian Aguilar Uribe

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Moises Benítez
To: Ulises Cabrera; Gabriel Diaz
Subject: The Moreno Valley trade center project
Date: Thursday, June 16, 2022 2:57:17 PM

Warning: External Email – Watch for Email Red Flags!

I support this project, it will bring many jobs and raid repair us a much needed park to my city.

Thank You,
Moises Benites

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: jose murillo
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno valley trade center project
Date: Thursday, June 16, 2022 3:00:14 PM

Warning: External Email – Watch for Email Red Flags!

Hello I'm a Moreno valley resident near the area Redlands Blvd and I live here most my child hood I haven't seen a new built park in 15 years plus that I've been here I highly recommend you approve this we need more soccer and baseballs fields for our community for our younger generation and heard u guys will be repairing the roads which we've been needing deeply in that area lots of cracks and potholes which would be a plus for our community please recommend on approving this project it could really help our younger generation escape alot of violence and allows them to change and be with there families more sincerely a resident from Moreno Valley Jose murillo

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Ricky Castillo
To: Gabriel Diaz; Ulises Cabrera
Subject: Moreno Valley Trade Center
Date: Thursday, June 16, 2022 3:09:07 PM

Warning: External Email – Watch for Email Red Flags!

Dear Council members,

My name is Ricky Castillo out of local 951 and I am a proud union carpenter. I am in support of the Moreno Valley trade center project. As a resident of the Inland Empire I believe it is essential that we continue development and make sure that it is done union. The project will benefit not just those who are able to work on said projects but every single person who lives and visits the community.

Best Regards,
Ricky Castillo

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Gustavo Barraza
To: Gabriel Diaz
Subject: Moreno Valley Trade Center Project
Date: Thursday, June 16, 2022 3:30:54 PM

Warning: External Email – Watch for Email Red Flags!

I am in full support of the Moreno Valley Trade Center Project because of the fact that I live in the city of Moreno Valley along with my spouse and four small children. It has come to my attention that this project will fund repairs to our much damaged road ways, a baseball field, soccer field, and also a tilt up project witch will provide many jobs for our community & union benefit. Thank you for your time and consideration.

Sincerely
Gustavo Barraza

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Randall Witt
To: Ulises Cabrera; Gabriel Diaz
Subject: Moreno trade center project
Date: Thursday, June 16, 2022 3:38:56 PM

Warning: External Email – Watch for Email Red Flags!

Hello this is Randall Witt this would be a great opportunity for work to be closer to home. I would really enjoy a new park for my family to enjoy. I am full support for this project to happen.
Thank you!

Sent from Yahoo Mail on Android

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Christopher Schmidt
To: Edward A. Delgado; Gabriel Diaz
Subject: Moreno trade center project
Date: Thursday, June 16, 2022 3:39:00 PM

Warning: External Email – Watch for Email Red Flags!

Hello this is Christopher Schmidt this would bring work for me close to home. I am in full support for this project thank you for the opportunity to hear from me.--
null

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Ruth Li
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER)
Date: Thursday, June 16, 2022 3:52:54 PM

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Ruth Li

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: DSW Corp
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: Re: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER)
Date: Thursday, June 16, 2022 4:16:26 PM

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I strongly support the above Project and ask you to vote YES on June 21st , 2022. We need the additional Jobs and City Revenues so you don't have to raise our TAXES !! The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you,

Douglas Whitney

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Luis D Garcia Lopez
To: Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Cc: movaltradecenter@gmail.com; City Clerk; Gabriel Diaz
Subject: Vote Yes on MVTC and Ironwood Sports Park
Date: Thursday, June 16, 2022 4:23:53 PM

Warning: External Email – Watch for Email Red Flags!

> Council member;
>
> I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will bring a new desperately needed sports park to the City of Moreno Valley.
> We need more parks with soccer and baseball fields to accommodate our youth and teach them the critical skills of teamwork and respect.
>
> Please vote yes on the Moreno Valley Trade Center so Ironwood
> Sports Park can become a reality.
> Thank vou very much.

Luis Damián Garcia

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: patricia uchytil
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST
Date: Friday, June 17, 2022 9:32:22 AM

Warning: External Email – Watch for Email Red Flags!

Thank You!

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Councilmember Elena Baca Santa Cruz:

Subject: Please support the Moreno Valley Trade Center

Councilmember Elena Baca Santa Cruz,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Councilmember Ed Delgado

Subject: Please support the Moreno Valley Trade Center

Councilmember Ed Delgado,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Councilmember David Marquez

Subject: Please support the Moreno Valley Trade Center

Councilmember David Marquez,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Councilmember Ulises Cabrera

Subject: Please support the Moreno Valley Trade Center

Councilmember Ulises Cabrera,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much!

Michael S. Dea
Business Manager
Secretary-Treasurer

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: City Clerk

Subject: Please support the Moreno Valley Trade Center

City Clerk,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: City Planner (gabrield@moval.org)

Subject: Please support the Moreno Valley Trade Center

City Planner,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Laborers' International Union of North America

LiUNA!

Local No.1184

Local No.1184

Serving Southern California and Arizona

MICHAEL S. DEA
BUSINESS MANAGER
SECRETARY-TREASURER

William G. Smith
PRESIDENT

MAIN OFFICE
128 E. La Cadena Drive
Riverside, CA 92507
Telephone: 951-684-1484
Fax: 951-779-1445

ARIZONA OFFICE
1401 E. Washington St
Phoenix, AZ 85034
(602) 258-6521
Fax (602) 495-1464

THOUSAND PALMS OFFICE
72732 Ramon Rd.
P.O. BOX 155
Thousand Palms, CA 92276
(760) 343-0533
Fax (760) 343-0883
(800) 203-3111

EL CENTRO OFFICE
690 Broadway St., Suite. #5
El Centro, CA 92243
(760) 337-3909
Fax (760) 337-3911

June 14, 2022

Moreno Valley City Council
Attn: Mayor Yxstian Gutierrez

Subject: Please support the Moreno Valley Trade Center

Mayor Yxstian Gutierrez,

I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, as well as $4 million in road improvements and over $6 million annually in revenue to support critical City services.

Moreover, the developer has gone above and beyond in community outreach to neighbors and has modified the project to address community concerns.

The addition of a landscaped berm will not only block neighbors from any noise or views of the project, but it will also block existing views of other industrial facilities. The project will also create a sports park, including a baseball field and 2 full-size soccer fields.

As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs and a desperately needed new park to our community.

Thank you very much,

Michael S. Dea
Business Manager
Secretary-Treasurer

Feel the Power

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Patrick Clifton
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: Vote Yes on the Moreno Valley Trade Center - June 21
Date: Friday, June 17, 2022 11:00:03 AM

Warning: External Email – Watch for Email Red Flags!

Councilmember,
I urge you to support the Moreno Valley Trade Center when it comes before you for a vote. This project will create over 1,500 local jobs, over $6 million annually in revenue to support critical City services, and a new sports park.
As your constituent, I respectfully request you support the Moreno Valley Trade Center to bring jobs, better roads, and a new park to our community.
Thank you very much.

Sent from my Verizon, Samsung Galaxy smartphone
Get Outlook for Android

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From:	Jason Lo
To:	Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Ulises Cabrera; Edward A. Delgado; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher
Cc:	jasongraysierra@gmail.com
Subject:	Vote Yes for the (MVTC) Moreno Valley Trade Center Project June 21st 2022
Date:	Friday, June 17, 2022 9:22:12 PM

Warning: External Email – Watch for Email Red Flags!

Dear Members,

As a home owner and owner of additional property in Moreno Valley, I strongly support the above Project and ask you to vote YES on June 21st, 2022. It will bring much needed jobs and revenues to our city.

The Developer has more than addressed the adjacent neighborhood to the South's concerns and is spending more money on Community Benefits to the entire City than the WLC did (World Logistics Center) and it is 40 times larger than this project.

Thank you.

-Jason Lo

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Jason Lowe
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher; Mike Lee
Subject: Moreno Valley Trade Center Warehouse
Date: Saturday, June 18, 2022 11:56:49 AM

Warning: External Email – Watch for Email Red Flags!

Hello City Council,
My name is Jason Lowe and I have been a Math Teacher and Head Wrestling Coach at Canyon Springs School for the last 19 years. I am emailing you to let you know I am in support of the 1,300,000 sq ft Moreno Valley Trade Center. I support this massive project because it will bring so many new jobs, allow our current Moreno Valley residents to work close to home, bring in tax revenue for much needed road improvements, police and fire departments, schools and parks, and future community projects.
Thank you so much for your time and consideration.

Jason Lowe

Sent from Yahoo Mail on Android

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From:	Tom Thornsley
To:	Ulises Cabrera
Cc:	City Clerk
Subject:	Moreno Valley Trade Center Appeal
Date:	Sunday, June 19, 2022 1:01:36 PM
Attachments:	Council Member Cabrara Letters.pdf

Warning: External Email – Watch for Email Red Flags!

Subject: Moreno Valley Trade Center Appeal

Dear Councilman Cabrera,

Once again you will be taking up the MVTC warehouse appeal of the Planning Commission's denial. You expressed major concerns with the project that could not be rectified and I hope that position has not changed. You will likely hear a lot of reasons why the appeal should not be approved and thus make the decision to deny as the community expects. There are so many potential warehouses to build just east of this project site and elsewhere in the city, that employment for construction workers and warehouse workers should be set for a very long time.

I am unable to attend the meeting Tuesday evening and have attached a letter expressing only a few the many concerns that arise from this project. Please give what write serious consideration and vote **NO on the appeal of the Moreno Valley Trade Center.**

Sincerely,

Tom Thornsley

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Tom Thornsley
tomthornsley@hotmail.com

June 19, 2022

To: District 4 Councilman -Ulises Cabrera (Via email: ulisesc@moval.org)

Subject: Reject Moreno Valley Trade Center Appeal

Dear Councilman Cabrera,

You are once again about to consider the Moreno Valley Trade Center's project denial appeal, that was destine for denial by you and two other council members that would have upheld the Planning Commission's denial and the communities interest. It was conferred by three council members as a good proposal in the wrong location. Despite the changes made this warehouse is still in the wrong location and if approved will start a domino effect for other undesirable development in the area. If you approve the appeal you will then be considering the Truck Stop denial which combined will drastically impact the Redlands/Eucalyptus/SR-60 intersections beyond any acceptable level in the community. I will leave the complete listing the litany of concerns to all the others speaking/writing against this project – most of which you heard at the first hearing.

Late last year, at the conclusion of the public hearing for the Campus Danbe warehouse, on Alessandro, you implied that you would be approving the project with the belief the Sierra Club would sue the developer and thus make it a better project. This philosophy is wrong on so many levels and really quite embarrassing to be heard from a council member. It indicates that you believe the project could be better but you are not willing to put forth those improvements yourself. Nor is it a good reflection on the city staff that seemed to fail at bringing forth a worthy project with all impacts addressed to the fullest. Additionally, the comment and staff's shortcomings do not make us look business friendly. Think about it; shove a project through with flaws, approve it, and let outside forces sue for a better project at greater expense to the developer. Ouch!

Let us not forget the Moreno Valley Business Park approval in 2020 that proposed a warehouse on the southeast corner of Ironwood and Nasson. It had a flawed Initial Study that failed to address the actual project. It is so bad that staff should have been reprimanded, and so bad that the developer knows they cannot correct the errors without the need to prepare an EIR. Thus they have requested to have their project rescinded and to date staff has not brought forth this request to the council.

So let us consider the Moreno Valley Trade Center. Several months ago three of the four council members deemed this project inappropriate for multiple reasons. The best concluding comment was "it's a good project but in the wrong location." Now that it has returned with modifications, that staff should have required, it is still a warehouse taking away residential land in a city that fails to meet its

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

housing needs and has more than enough warehousing opportunities immediately to the east and on the southwestern edge of town. Do we need more warehouses? **NO!**

The land upon which it is proposed is intended for residential use as is the land immediately west of it and to the southwest. Good planning policy has always advocated keeping industrial uses away from residential. However, city leaders and planning staff have failed to maintain this policy for the protection of the existing and potential residential areas. Nor have they embraced their General Plan's objectives. Environment impacts from industrial uses, such as warehousing, impose significant harm to residential areas. In many instances you will be lead to believe that air, noise, traffic, and lighting impacts are minimal. Playing up impacts as minimal detracts from the ultimate reality of putting a warehouse adjacent to existing homes. The complexities of these impacts will way heavy on adjacent residents and degrade their standard of living. This also devalues their homes and will hinder development of adjacent and nearby vacant residential land, further limiting the City's required housing count.

I expect/hope you are aware of the draft Municipal Services Review finding from LAFCO about Moreno Valley's make up. They point out that we are now over saturated with warehousing, we are failing to meet our housing needs, and we are classified as a disadvantage community. In their perspective, and that of many others, we need to go in a new direction. Developers prey on disadvantaged communities because they are hungry for any kind of development and they don't care about the members of the community they are impacting. This is why it should be easy to say **NO** to the Moreno Valley Trade Center and look to more promising development and growth for Moreno Valley.

So what should be done? Compliance with the City's General Plan should be maintained, not only here but throughout the Moreno Valley. At this time the city has reached its saturation point for mega-warehouses and should be looking to establish higher goals for residential development and employment diversity and opportunities. Just east of this project site is an approved specific plan that will develop the equivalent of 40 one-million square foot mega-warehouses. This alone should be enough for us to just say **NO** to any other mega-warehouses, including **NO to the Moreno Valley Trade Center**.

Sincerely,

Tom Thornsley

Tom Thornsley

Attachment: Moreno Valley Warehouse Approvals 2009-2022

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley Warehouse Approvals 2009-2021

Since 2009, Moreno Valley has approved, or is reviewing, at least the following industrial warehouse projects that serve as “distribution” or “logistics” centers for consumer goods, and as such, they are part of the “goods movement” network totaling 53,070,835 square feet:

- March Business Center (2009) – General Plan Amendment to allow 1,484,407 square
- feet of industrial warehouse space on 66.9-acres.
- Master Plot Plan PA07-0035 (2010) - 409,598 square foot industrial warehouse
- West Ridge Commerce Center (2011) - 937,260 square foot warehouse distribution
- building
- VIP Moreno Valley Project (2012) - 1,616,133 square foot warehouse space
- First Inland Logistics Center II Project (2013) - 400,130 square feet warehouse space
- First Nandina Logistics Center Project (2014) - 1,450,000 square feet warehouse space
- Prologis Eucalyptus Industrial Park Project (2015) - 2,244,419 square feet of warehouse uses including a General Plan Amendment from residential to Light Industrial
- World Logistics Center (2015) - 40.6 million square feet of warehouse logistics development on 3,918 acres in eastern Moreno Valley
- Indian Street Commerce Center Project (2016) - 446,350 square feet of warehouse space
- Moreno Valley Logistics Center (2016) - 1,736,180 total square feet of warehouse space
- Brodiaea Commerce Center (2017) - 262,398 square foot warehouse including a rezone from Business Park-Mixed Use to “Light Industrial”
- Moreno Valley Business Park (2021) - 220,390 square feet of warehouse logistics development including a General Plan Amendment to from commercial to light industrial
- Heacock Commerce Center (2021) – application for a General Plan Amendment and Change of Zone for two high cube industrial buildings totaling 873,967 square feet
- Compass Danbe Center Point (2021) – application for a General Plan Amendment to allow for the development of two light industrial buildings of 389,603 square feet

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: Edward A. Delgado
Cc: City Clerk
Subject: Moreno Valley Trade Center Appeal
Date: Sunday, June 19, 2022 12:54:08 PM
Attachments: Council Member Delgado Letters.pdf

Warning: External Email – Watch for Email Red Flags!

Dear Councilman Delgado,

Once again you will be taking up the MVTC warehouse appeal of the Planning Commission's denial. You made great points previously that could not be rectified and I hope that position has not changed. You will likely hear a lot of reasons why the appeal should not be approved and make the decision to deny and the community expects. There are so many potential warehouses to build just east of this project site and elsewhere in the city that employment for construction workers and warehouse workers should be set for a very long time.

I am unable to attend the meeting Tuesday evening and have attached a letter expressing only a few the many concerns that arise from this project. Please give what write serious consideration and vote NO on the appeal.

Sincerely,

Tom Thornsley

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Tom Thornsley
tomthornsley@hotmail.com

June 19, 2022

To: District 2 Councilman -Edward A. Delgado (via email: edd@moval.org)

Subject: Reject Moreno Valley Trade Center Appeal

Dear Councilman Delgado,

You are once again about to consider the Moreno Valley Trade Center, a project you stated was a good proposal in the wrong location. Despite the changes made this warehouse is still in the wrong location and if approved will start a domino effect for other undesirable development in the area. I will leave listing the litany of concerns to all the others speaking against this project – most of which you heard at the first hearing.

One must question the purpose of a land owner who contributes campaign funds to council members outside of their council district. What do they want? One must question the purpose of a developer offering to pay for city improvements beyond the scope of these necessarily required for their projects approval. Why would they? Both of these appear as requests to curry favor for the land owner and the developer. Any offer to improve city roadways or build ballfields by an outside developer looking for project approval is nothing more than an incentive (some consider a bribe) to get approval of their project. Making this same offer well after development has occurred and their business is established would be a philanthropic investment in their community. Think about the precedence this sets for others seeking project approval.

You have cited your mother's livelihood as a warehouse employment on a few occasions to justify considering and approving land use changes to permit development of more warehouses. One has to wonder if even you mom would approve of only providing one narrow range of employment opportunities over an entire city. In the past decade, the city has processed land use changes to permit in excess of 53,000,000 square feet of large warehousing opportunities. During this time the city has done away with available land for housing, commercial, and business park opportunities. Now it seems little value is being placed on the city's newly adopted general plan which intended to establish a stable, balance of growth for the foreseeable future.

Several months ago you seemed sound in your point of view that this warehouse was a good project but in the wrong location. Even though the developer has made some changes to the project, it is still a massive warehouse next to residential, and still in the wrong place. The land upon which it is proposed is intended for residential use as is the land immediately west of it and to the southwest. Good planning policy has always advocated keeping industrial uses away from residential. However, city leaders and

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

planning staff have failed to maintain this policy for the protection of the existing and potential residential areas. Nor have they embraced their General Plan's objectives. Environment impacts from industrial uses such as warehousing impose significant harm to residential areas. In many instances you will be lead to believe that air, noise, traffic, and lighting impacts are minimal. Playing up impacts as minimal detracts from the ultimate reality of putting a warehouse adjacent to existing homes. The complexities of these impacts will way heavy on adjacent residents and degrade their standard of living. This also devalues their homes and will hinder development of adjacent and nearby vacant residential land, further limiting the City's required housing count.

I expect/hope you are aware of the draft Municipal Services Review finding from LAFCO about Moreno Valley's make up. They point out that we are now over saturated with warehousing, we are failing to meet our housing needs, and we are classified as a disadvantage community. In their perspective, and that of many others, we need to go in a new direction. Developers prey on disadvantaged communities because they know you are hungry for any kind of development and they don't need to care about the members of the community they are impacting. This is why it should be easy to say **NO** to the Moreno Valley Trade Center and look to more promising development and growth for Moreno Valley.

So what should be done? Compliance with the City's General Plan should be maintained, not only here but throughout the Moreno Valley. At this time the city has reached its saturation point for mega-warehouses and should be looking to establish higher goals for residential development and employment diversity and opportunities. Just east of this project site is an approved specific plan that will develop the equivalent of 40 one million square foot mega-warehouses. This alone should be enough for us to just say **NO** to any other mega-warehouses, including **NO to the Moreno Valley Trade Center**.

Sincerely,

Tom Thornsley

Tom Thornsley

Attachment: Moreno Valley Warehouse Approvals 2009-2022

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley Warehouse Approvals 2009-2021

Since 2009, Moreno Valley has approved, or is reviewing, at least the following industrial warehouse projects that serve as “distribution” or “logistics” centers for consumer goods, and as such, they are part of the “goods movement” network 53,070,835 square feet:

- March Business Center (2009) – General Plan Amendment to allow 1,484,407 square
- feet of industrial warehouse space on 66.9-acres.
- Master Plot Plan PA07-0035 (2010) - 409,598 square foot industrial warehouse
- West Ridge Commerce Center (2011) - 937,260 square foot warehouse distribution
- building
- VIP Moreno Valley Project (2012) - 1,616,133 square foot warehouse space
- First Inland Logistics Center II Project (2013) - 400,130 square feet warehouse space
- First Nandina Logistics Center Project (2014) - 1,450,000 square feet warehouse space
- Prologis Eucalyptus Industrial Park Project (2015) - 2,244,419 square feet of warehouse uses including a General Plan Amendment from residential to Light Industrial
- World Logistics Center (2015) - 40.6 million square feet of warehouse logistics development on 3,918 acres in eastern Moreno Valley
- Indian Street Commerce Center Project (2016) - 446,350 square feet of warehouse space
- Moreno Valley Logistics Center (2016) - 1,736,180 total square feet of warehouse space
- Brodiaea Commerce Center (2017) - 262,398 square foot warehouse including a rezone from Business Park-Mixed Use to “Light Industrial”
- Moreno Valley Business Park (2021) - 220,390 square feet of warehouse logistics development including a General Plan Amendment to from commercial to light industrial
- Heacock Commerce Center (2021) – application for a General Plan Amendment and Change of Zone for two high cube industrial buildings totaling 873,967 square feet
- Compass Danbe Center Point (2021) – application for a General Plan Amendment to allow for the development of two light industrial buildings of 389,603 square feet

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: brooke hall
To: Gabriel Diaz; David Marquez; Edward A. Delgado; Elena Baca-Santa Cruz; Sean P. Kelleher; Ulises Cabrera; Dr. Yxstian A. Gutierrez
Subject: Vote YES for the MTVC Moreno Valley Trade Center Project June 21st 2022
Date: Sunday, June 19, 2022 9:47:45 PM

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

I want to voice my support for the MVTC Moreno Valley Trade Center Project on June 21st 2022. I am asking you to vote YES to help us improve our city. This project is such a benefit to Moreno Valley and it's citizens. It will allow for the creation of increased jobs and reduced taxes. Enacting this project will also help keep from our taxes being increased. I believe that the developers have addressed all of the necessary concerns for the community. As a resident of Moreno Valley and a voter in this city I feel it is imperative we support this project.

Thank you,
Brooke

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: morgan hall
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher
Subject: Moreno Valley Trade Center
Date: Sunday, June 19, 2022 9:50:39 PM

Warning: External Email – Watch for Email Red Flags!

I support this project on June 21st, 2022. As a voter and resident of Moreno Valley, I understand this projects intentions and agree to the additional Jobs and City Revenue this will bring. I've lived in the city of Moreno Valley my whole life, young people like myself need more jobs and opportunities and that is what this project will develop.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Michelle Hall
To: Gabriel Diaz; David Marquez; Edward A. Delgado; Elena Baca-Santa Cruz; Sean P. Kelleher; Ulises Cabrera; Dr. Yxstian A. Gutierrez
Subject: Vote YES on Moreno Valley Trade Center
Date: Sunday, June 19, 2022 10:01:33 PM

Warning: External Email – Watch for Email Red Flags!

Dear council member

As a 25 year voting resident of Moreno Valley I strongly support the above project to vote yes. The project will help our community in many ways without hindering us financially. The revenue will improve Moreno Valley such as a much need park and road ways located near the project.
This project will help with revenue for the support of our police, fire, schools, and other city employees.
I strongly support this and see only positive outcome from this project
Sincerely
Michelle Hall

--
Michelle Hall
Adam Hall's Plant Nursery
12925 Redlands blvd
Moreno Valley CA 92555
951-538-2732

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Dakota Hall
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher
Subject: VOTE YES Moreno Valley Trade Center
Date: Sunday, June 19, 2022 10:04:08 PM

Warning: External Email – Watch for Email Red Flags!

Dear council members

As being a voting resident of Moreno Valley my whole life, whom supports and loves this community, I feel strongly about the Moreno Valley trade center project getting approved and the benefits it will add to our amazing community. This project will not only provide many jobs for the hard working people of Moreno Valley, but it will also bring new residents and business to our community that will only help us further flourish. I have adored and loved this city since I was born and as a voting resident I strongly feel the need for this project to occur for the benefit and growth of our community. We are in need of the revenue this project will provide in order to insure that our taxes don't increase. This project will provide necessary proceeds in order to better our police, fire department, parks, after school programs, and recreational centers for our entire community as a whole. These are the ideals that make Moreno Valley the incredible community that it is. Let's allow that to flourish and grow.

Sincerely,

Dakota Madison

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Rachel Ogulnick
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST
Date: Monday, June 20, 2022 8:23:57 AM

Warning: External Email – Watch for Email Red Flags!

Thank you!

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Rachel Flanagan
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST
Date: Monday, June 20, 2022 8:24:38 AM

Warning: External Email – Watch for Email Red Flags!

Thank you.

--

RACHEL FLANAGAN
[T] 310.571.8227
[C] 323.333.0855

.....
This message may contain confidential or proprietary information intended only for the use of the addressee(s) named above or may contain information that is legally privileged. If you are not the intended addressee, or the person responsible for delivering it to the intended addressee, you are hereby notified that reading, disseminating, distributing or copying this message is strictly prohibited. If you have received this message by mistake, please immediately notify us by replying to the message and delete the original message and any copies immediately thereafter. Thank you.
.....

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Ryan Ogulnick
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Edward A. Delgado; Ulises Cabrera; David Marquez; Mike Lee; Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: VOTE YES ON MVTC (MORENO VALLEY TRADE CENTER) JUNE 21ST
Date: Monday, June 20, 2022 8:24:54 AM

Warning: External Email – Watch for Email Red Flags!

Thank you.

--

V D C
RYAN OGULNICK
President/CEO
[T] 310.571.8227
[C] 310.508.4083

This message may contain confidential or proprietary information intended only for the use of the addressee(s) named above or may contain information that is legally privileged. If you are not the intended addressee, or the person responsible for delivering it to the intended addressee, you are hereby notified that reading, disseminating, distributing or copying this message is strictly prohibited. If you have received this message by mistake, please immediately notify us by replying to the message and delete the original message and any copies immediately thereafter. Thank you.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Sharon Stokes
To: Dr. Yxstian A. Gutierrez
Cc: City Clerk
Subject: MVTC
Date: Monday, June 20, 2022 8:17:00 AM

Warning: External Email – Watch for Email Red Flags!

For someone who professes to love Moreno Valley, I don't know how you still have a job! WHAT are you trying to do?

You need to come out here and checkout this round about when there's traffic… especially with the landscape that grows taller everyday! In my car I can barely see over the tops of it… and half the vehicles just barrel through without yielding It ought to be a nightmare when we have a ton of diesel trucks utilizing it….

I really believe all of you are either clueless OR you really just don't care WHAT you approve as long as you get perks and recognition to feed your egos….

You are increasing pollution exponentially… you're building this crap right next to a housing tract… do you guys have ANY common sense?! ♀

I hope there is enough opposition that you can possibly reconsider this project.

Sincerely
Sharon Stokes
34-year east end resident

Sent from my iPhone 13 PRO MAX

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From:	Darric
To:	Joe Bunker
Cc:	Dr. Yxstian A. Gutierrez; David Marquez; Ulises Cabrera; Edward A. Delgado; Elena Baca-Santa Cruz; Gabriel Diaz; Sean P. Kelleher; Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; DAMON FOREMAN; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jeff Sims; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; VERONICA Ramos
Subject:	Re: Moreno Valley Trade Center Public Hearing on June 21, 2022
Date:	Monday, June 20, 2022 12:28:38 PM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

Please include these comments as part of the record for the above-mentioned public hearing. I am a resident of the Heritage Ranch community, the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicant's appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those very people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would not approve. It is shocking to us that some of the things that people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for the Moreno Valley do not live in this community. This is not a good project... If you approved this project then you will want to approve the Pilot Truck stop next... I would like to not assume that you care more about city revenue than the health and well-being of the people in your community.

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Thank you,

Darric V. Williams

Heritage Ranch HOA

Affected Resident

On Mon, Jun 13, 2022 at 2:56 PM Joe Bunker <bunkerjl@gmail.com> wrote:

> Honorable Mayor and Councilmembers;
>
> Please include these comments as part of the record for the above mentioned public hearing. I represent the Valley Springs HOA which borders Encelia Ave., the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicants appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.
>
> Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.
>
> Thank you,
>
> Joe Bunker
>
> Valley Springs HOA
>
> Warehouse Chairperson

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: George Hague
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk Staff_DG
Subject: PE Article on the Moreno Valley Trade Center .... "Moreno Valley warehouse — larger than city's mall "
Date: Monday, June 20, 2022 1:34:26 PM

Warning: External Email – Watch for Email Red Flags!

https://www.pe.com/2022/06/19/moreno-valley-warehouse-larger-than-citys-mall-is-back-for-consideration/

Same as the Press-Enterprise (PE) article found below with all pictures.

Good afternoon city council members,

The developer of the 1.26 million sq ft Moreno Valley Trade Center (MVTC) has done very little since December to reduce its pollution impacting the health of nearby residents — especially on children and the elderly. **Even their 18 acre sports park is adjacent to Redlands Blvd which north of SR-60 is a city designated diesel truck route for the MVTC and other warehouses which will again impact the health of children trying to use the park.**

BOTH THE MVTC AND SPORTS PARK ARE IN THE WRONG LOCATION BECAUSE OF DIESEL POLLUTION AND HOW THEY WILL BOTH RESULT IN HEALTH IMPACTS TO CHILDREN AND OTHERS.

PLEASE DENY THEIR APPEAL FROM THE PLANNING COMMISSION'S UNANIMOUS NO VOTE OF THIS WAREHOUSE

Sincerely,

George Hague

P.S. Please read the Press-Enterprise (PE) article found below .

Moreno Valley warehouse — larger than city's mall — is back for consideration

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Silvia Flores, seen Friday, June 17, 2022, with children, Jillian Flores,13, at right, and Slater Flores, 11, opposes a 1.26-million-square-foot warehouse in her neighborhood. They are standing in the middle of Mozart Way, with Encelia Avenue behind them, where the proposed warehouse could rise. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

By **DAVID DOWNEY** | ddowney@scng.com | The Press-Enterprise
PUBLISHED: June 19, 2022 at 7:00 a.m. | UPDATED: June 19, 2022 at 7:01 a.m.

A plan to build a warehouse larger than the Moreno Valley Mall across the street from houses on half-acre lots is returning to the Moreno Valley City Council.

The council is set to decide Tuesday, June 21, whether to greenlight a 1.26-million-square-foot logistics project called the Moreno Valley Trade Center, on 80 acres south of the 60 Freeway.

The developer, Dallas-based Hillwood Investment Properties, has said the warehouse would stand 48 feet tall. The project's final environmental impact reportstates that the building could reach 100 feet if occupied by a fulfillment center filling the orders of online shoppers.

1 of 2

A 1.26-million-square-foot warehouse is proposed to be built on this land, seen Friday, June 17, 2022, across the street from Moreno Valley homes. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

Silvia Flores, seen Friday, June 17, 2022, w

In advance of Tuesday's meeting, letters from people on both sides of the issue have poured in to the city.

Walter Fus, saying he has been a Moreno Valley resident since 1977 and is a retired Air Force pilot, wrote Saturday, June 11, that approving the project "would be the most egregious decision this council could ever make."

Cristina Rivera, in a Wednesday, June 15, email, urged approval in praising an amenity the developer promised, if allowed to build. The project "will bring a new desperately needed sports park to the City of Moreno Valley," Rivera wrote.

Union carpenters submitted letters of support, saying the project would create construction jobs.

A decision was postponed

In October, the Moreno Valley Planning Commission rejected the project on a 4-0 vote, with one commissioner not participating due to a potential conflict of interest, concluding the center was incompatible with a neighborhood to the south. Hillwood Investment Properties appealed the decision to the council, which discussed the project in December but postponed a decision.

Now the project is back.

City planners are recommending the council approve it, by certifying the environmental impact report, approving a general plan amendment, changing the zone and making a determination that the project won't "result in a net loss in residential capacity."

In changing the property designation, the city would eliminate the potential for 145 single-family houses to be built, according to an environmental report.

Project proponents are seeking approval at a time when some Inland Empire communities are pushing back against warehouses.

For example, the Redlands City Council recently enacted a moratorium on industrial projects on the city's west side. Earlier, Jurupa Valley limited warehouses to its Mira Loma and Agua Mansa areas, and adopted rules for other types of businesses that generate heavy truck traffic. And Pomona is considering a 45-day moratorium on new warehouses.

At the same time, online shopping is soaring and continues to drive a regional explosion in the logistics industry.

The Moreno Valley Trade Center arrived on the dais of the Planning Commission in fall, a few months after the city completed an overhaul of its general plan, a guide for future growth.

That document designated the 80-acre project site, west of Redlands Boulevard between Eucalyptus and Encelia avenues and mostly empty except for an 8.5-acre plant nursery, as a place for houses on half-acre lots.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Hillwood is seeking permission to deviate from that new growth guide. In part because of that, Planning Commission member Jeff Sims called on the council to kill the project in a Saturday, June 11, letter.

“Why have an approved General Plan and not honor it?” Sims wrote.

Two other projects in pipeline

There are two other warehouse projects in the early stages.

One is called Edgemont Commerce Center, a proposed 142,345-square-foot warehouse distribution building on approximately 7 acres southwest of Bay Avenue and Day Street.

The other is Heacock Commerce Center, a pair of industrial buildings totaling 874,000 square feet on 46 acres southeast of Gentian Avenue and Heacock Street.

City spokesperson Matthew Bramlett said in email Thursday that environmental reports are being prepared for both projects and it’s not known when they will be completed.

Like Moreno Valley Trade Center, the Heacock project can’t be built unless the city lets the developer deviate from the general plan. Warehouses are allowed at the Edgemont site, though a zone change is required to build one bigger than 50,000 square feet.

George Hague, conservation chair for the Moreno Valley Group of the Sierra Club, said those projects are also in the wrong place because they are near homes and schools.

The California Air Resources Board submitted letters to the city warning that each project has the potential to “expose nearby communities to elevated levels of air pollution.”

In separate letters, Robert Krieger, chief of the California Air Resources Board’s Risk Reduction Branch, wrote that both projects are “in census tracts that score within the top 1 percent of State’s most impacted from air pollution from an environmental hazard and socioeconomic standpoint.”

Truck traffic, air pollution concerns

As for the Moreno Valley Trade Center, since the December hearing Hillwood has made changes.

The warehouse footprint has been reduced by 65,582 square feet to approximately 1,263,271 square feet, a city report states. A 35-foot-tall earthen berm, landscaped with trees and shrubs is to be built along Encelia Avenue. Truck access is to be limited to Eucalyptus Avenue. The number of loading docks is to be reduced by four, to 117, on the south side of the building, and by seven, to 97, on the north side.

Also, Hillwood has offered to build an 18-acre park at Redlands Boulevard and Ironwood Avenue that features two lighted soccer fields, a lighted baseball field, a playground, concession stand and exercise equipment.

Manuel and Arminda Del Alto, who live near Encelia Avenue, said improvements such as the berm don’t alleviate concerns. They moved to Moreno Valley 14 years ago from Ontario because they wanted to escape the warehouses going up there.

“My main concern is what the trucks and cars will put in the air,” said Manuel Del Alto, who has had a lung transplant.

Arminda Del Alto said they enjoy hearing birds and coyotes in the distance, and worry they will disappear.

Silvia Flores, who lives nearby with her husband, Joe, and two children ages 13 and 11, said she worries about pollution and traffic.

“It’s going to be terrible to have all these trucks,” Flores said.

The environmental report states that the logistics center would generate about 2,320 vehicle trips per day, including 1,436 by passenger vehicles and 885 by trucks. Under the fulfillment center scenario, the total would be 6,607 daily vehicle trips, including 5,750 passenger vehicles and 857 trucks.

Hillwood made several proposals earlier to soften the project’s impact on the neighborhood, including setting aside:

- $125,000 to establish an account to purchase of at least five electric-powered heavy trucks that drive the 60 Freeway corridor through Moreno Valley
- $64,000 to create an account for defraying up to 90% of neighbors’ costs of purchasing and installing noise-insulation equipment, with a per-home limit of $8,000. Eleven homes on Galino Court, Essen Lane, Gershwin Way, Mozart Way, Strauss Lane and Shubert Street would be eligible for the payments.
- $40,000 to establish an account to pay up to 90% of a homeowner’s cost of purchasing and installing air filtration systems, with a per-home limit of $5,000. The same 11 households would be eligible for such payments.

Despite the offers, Sims, the planning commissioner, said, “you can’t negate the smog, the traffic and the noise.”

The warehouse building also would eclipse neighbors’ views, he said.

RELATED LINKS

Massive Moreno Valley warehouse project still alive

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

On most days, they can see foothills.

“On a clear day you can see the mountains looking up toward the Big Bear area,” Sims said. If the project goes in, he said, “all we will be able to see is a big wall looking to the north.”

IF YOU GO

What: The Moreno Valley City Council will meet and consider a 1.26-million-square-foot logistics project called the Moreno Valley Trade Center.

When: 6 p.m. Tuesday, June 21

Where: City Hall Council Chamber, 14177 Frederick St., Moreno Valley

Staff writer Monserrat Solis contributed to this report.

Has Moreno Valley reached its warehouse saturation point?

Pushback against warehouses in the Inland Empire gains momentum

$47 million settlement reached in World Logistics Center lawsuit

Moreno Valley council says yes — again — to World Logistics Center

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From:	Jeff Sims
To:	Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher; Manuel A. Mancha
Subject:	MVTC
Date:	Monday, June 20, 2022 4:58:53 PM
Attachments:	doc10414020220620172327.pdf

Warning: External Email – Watch for Email Red Flags!

Hello,

Now that the agenda packet has been posted, looking at the modified site plan is possible. Sorry for additional comments at this late time.

Hillwood now proposes a large landscaped berm 35' high relative to Encelia Avenue about 167' wide for about 2,000 feet along the length of Encelia (almost a half mile). On the project side of the berm there is a 40' wide private driveway that is 15 to 25 feet below the top of the berm. Apparently this allows the truck traffic to circulate from east to west and vice versa to move between the north and south loading docks and access points to Eucalyptus.

The 14 foot screen wall is between the private driveway and south facing loading dock area.

This raises some concerns if the project is approved:

1. No perimeter security fencing is proposed along Encelia Avenue. I confirmed this via call with Sean Kelleher, Manny Mancha, and Michael Lloyd this morning. This means the entire area between Encelia to the 14' wall is open.....basically there will be an open space and a private road parallel the length of Encelia. Given this is going to be an unfenced, shaded, landscaped area of around 7.5 acres, this area may become a prime location for people to hang out and set up camp. Further with Encelia being a wide and relatively low traffic street, it may also become a spot for motorhomes and cars to park for an extended period while using the unfenced landscaped area. If the Pilot Travel Center is also approved on appeal, the potential for this increases. The unsheltered like being able to locate where there is some privacy and opportunity for easy property theft, panhandling, and getting places.

2. With the private drive running parallel to Encelia for close to a half mile there will be ongoing truck traffic at all times of the day and night grinding through their gears driving around on the project property. This road is only 250 feet from the existing homes on the south side of Encelia. The 14' wall does nothing for this traffic and noise. The private drive ranges from 15 to 25 feet below the top of the berm. Truck exhausts are at around 12 feet. Instead of all the noise, air pollution from trucks being on Encelia, they will be masked a bit from site due to the berm, but the berm will do nothing to prevent the ongoing noise and diesel soot coming into the neighborhood.

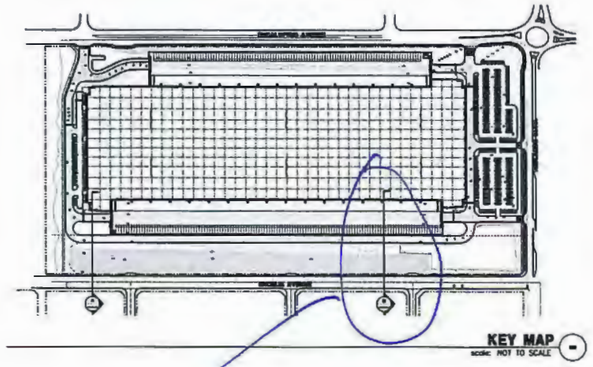
I have attached the overall site plan and the cross sections from the agenda package.

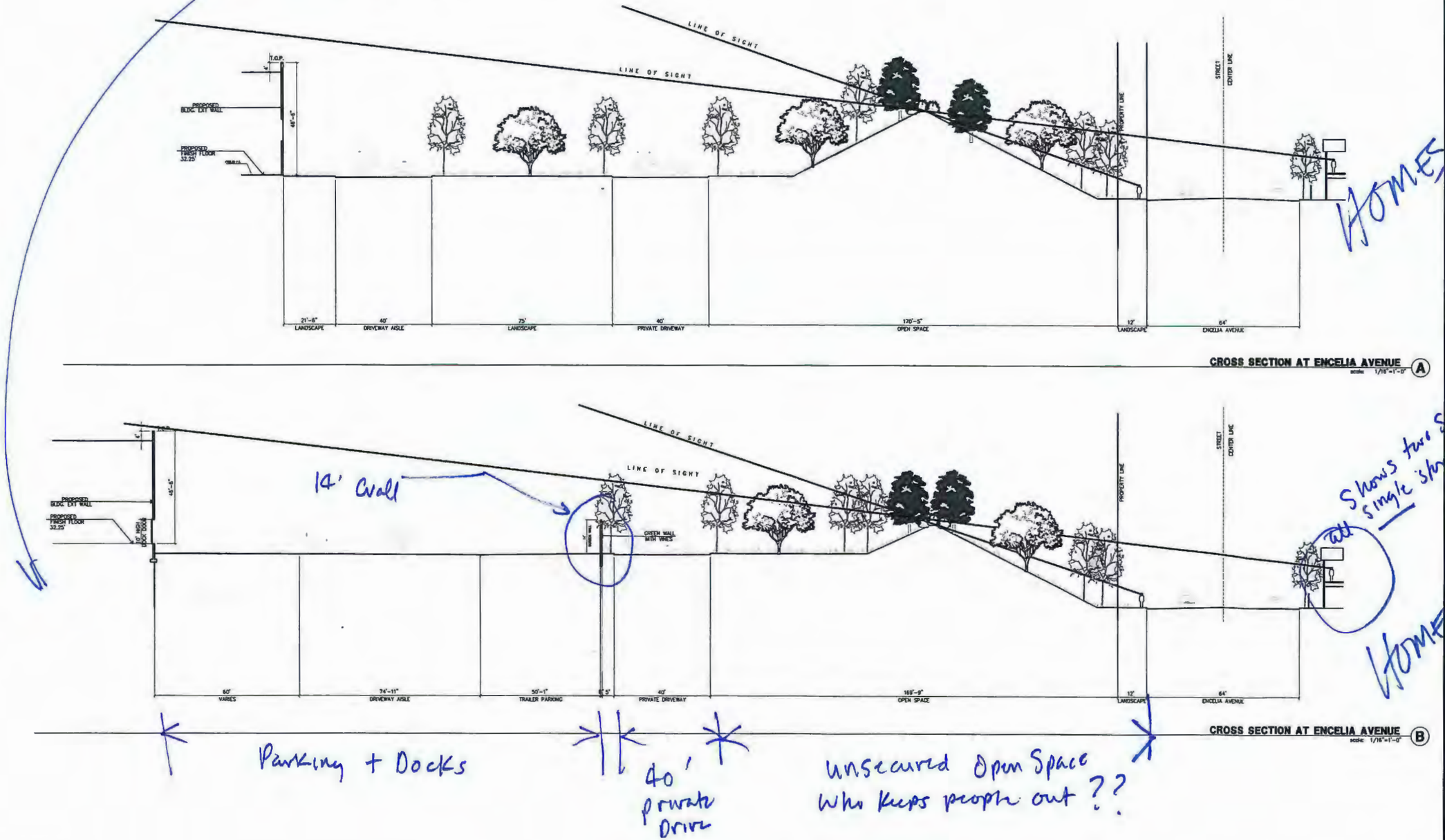
This project is not compatible with the existing neighborhood and should be built in the WLC. I highly doubt you would vote to put this on top of your house regardless of the "benefits" Hillwood offers.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Jeff Sims

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)





HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949-863-1770
fax: 949-863-0851
email: hpa@hparchs.com

Owner:

HILLWOOD

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalyptus Avenue
Moreno Valley, CA 92551

Consultants:

Thienes Engineering

Hunter Landscape

Title: Site Sections

Project Number: 19137
Drawn by: JC
Date: 10/03/19
Revision:

PEN19-0193

Sheet:

DAB-A4.

CAUTION: IF THIS SHEET IS NOT 24"x36" IT IS A REDUCED PLOT

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

EUCALYPTUS AVENUE

EXISTING NATURAL CHANNEL

REDLANDS BOULEVARD

SECTION A-A

Private dwy Drive

Screen wall

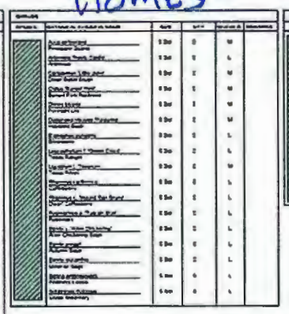
ENCELIA AVENUE

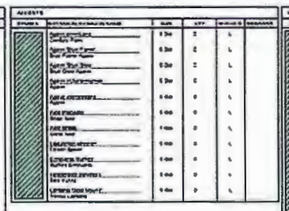
HOMES

HOMES

HOMES

PLANTING LEGEND





DECORATIVE PAVING AS NOTED ON PLANS

N

0 40' 80' 160'

Eucalyptus Ave and Redlands Blvd.

Hillwood

Moreno Valley, California

19-075

08.16.19 06.24.20 12.23.20
11.05.19 07.24.20 04.08.21
03.31.20 10.16.20

HUNTER LANDSCAPE
711 EL ATA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2406

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: Darric
To: Gabriel Diaz
Cc: Joe Bunker; Dr. Yxstian A. Gutierrez; David Marquez; Ulises Cabrera; Edward A. Delgado; Elena Baca-Santa Cruz; Sean P. Kelleher; Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; DAMON FOREMAN; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jeff Sims; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; VERONICA Ramos; Steve Quintanilla; Aldo Schindler; Manuel A. Mancha; Mindy Davis; Julia Descoteaux
Subject: Re: Moreno Valley Trade Center Public Hearing on June 21, 2022
Date: Monday, June 20, 2022 7:42:20 PM
Attachments: image898090.png

Warning: External Email – Watch for Email Red Flags!

I would also like to add that the community at large finds the appeasement or "Bribe" of a park or youth facility at this point more evidence that they know this project is out of place. It gives this whole project another black eye... Instead of truly coming up with solutions... Let's give them a park on the other side of the freeway that the current community cannot easily access as a way to bypass the people... SMH it is disappointing...

On Mon, Jun 20, 2022 at 4:54 PM Gabriel Diaz <gabrield@moval.org> wrote:

> Hello Mr. William,
>
> Thank you for your email and comments. It will be added to the public record for the project and provided to the City Council at the start of the public hearing on June 21, 2022. If you have any additional questions or comments feel free to contact me.
>
> Thank you,
>
> Gabriel
>
> **Gabriel Diaz**
> **Associate Planner**
> **Community Development**
> **City of Moreno Valley**
> p: 951.413.3226 | e: gabrield@moval.org w: www.moval.org
> 14177 Frederick St., Moreno Valley, CA, 92553

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITED FROM PUBLIC DISCLOSURE.
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSAGE.
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: Darric <darricgs400@gmail.com>
Sent: Monday, June 20, 2022 12:28 PM
To: Joe Bunker <bunkerjl@gmail.com>
Cc: Dr. Yxstian A. Gutierrez <yxstiang@moval.org>; David Marquez <davidma@moval.org>; Ulises Cabrera <ulisesc@moval.org>; Edward A. Delgado <edd@moval.org>; Elena Baca-Santa Cruz <elenab@moval.org>; Gabriel Diaz <gabrield@moval.org>; Sean P. Kelleher <seanke@moval.org>; Alvaro Valdivia <alvaldivia9@gmail.com>; Andre Moye <lexington92555@yahoo.com>; Antonio Hoggins <amhsr3@gmail.com>; tolken501@gmail.com; Brian Jackson <zbrianz@gmail.com>; Carolyn Valencik <carolyn12502@aol.com>; Ceci Yahoo <ceciggonzales@yahoo.com>; Charles Ober <caober4822@yahoo.com>; Cindy Ramos <cramos0086@gmail.com>; Crys Tom <4tomboys@gmail.com>; DAMON FOREMAN <mr4man@aol.com>; David McAbee <dmcabee18@gmail.com>; Don McNicholas <donm@teamsei.com>; Edna White <lanette54@hotmail.com>; Ericka Partida <aslanjashive@gmail.com>; Eugene Wright <wmrtaz@gmail.com>; Jackie McGee <ajmcgee5@gmail.com>; James Hagen <baxterdulce@gmail.com>; Jean Mims <tjmims@rocketmail.com>; Jeff Sims <Jsims@rcsd.org>; Jesus Flores <1225jessef@gmail.com>; John Hubbs <johnhubbs46@yahoo.com>; Jose Garcia <jp15garcia@hotmail.com>; juancortega87@gmail.com; Karie Woodward <kwcw@roadrunner.com>; Ken Morin

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

<kenmorinrealtor@gmail.com>; luckys55@aol.com; Lisa Tuy <david+lisat@msn.com>; Liz Anderson <ander3fam@yahoo.com>; lalfaro1962@gmail.com; Margarita Valdivia <maguevalgon7@gmail.com>; Maritza Torres <mari_7280@yahoo.com>; Mark & Donna Montgomery <donna00011@yahoo.com>; Merrick <merricktruss20@yahoo.com>; Nancy Altamirano <n.altamirano13661@gmail.com>; nelly_meza126@yahoo.com; Pierre Overton <pierredsr@yahoo.com>; Ramona Zuniga Morales <rlzm36@aol.com>; Randy Thomas <rwbcthomas@roadrunner.com>; Ray <stingyh333@yahoo.com>; Renee Smith <rrsmith33326@gmail.com>; Richard Moreno <rtmoreno97@hotmail.com>; Richard White <richard_white7@msn.com>; sfwhardy@yahoo.com; Sharilyn Bankole <amindforgod@cs.com>; Shelly Mesa <shellymesa@roadrunner.com>; Terry Scheschy <tscheschy@aol.com>; cdftom@aol.com; VERONICA Ramos <vip_ramos@hotmail.com>
Subject: Re: Moreno Valley Trade Center Public Hearing on June 21, 2022

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

Please include these comments as part of the record for the above-mentioned public hearing. I am a resident of the Heritage Ranch community, the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicant's appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those very people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would not approve. It is shocking to us that some of the things that people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for the Moreno Valley do not live in this community. This is not a good project... If you approved this project then you will want to approve the Pilot Truck stop next... I would like to not assume that you care more about city revenue than the health and well-being of the people in your community.

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

Thank you,

Darric V. Williams

Heritage Ranch HOA

Affected Resident

On Mon, Jun 13, 2022 at 2:56 PM Joe Bunker <bunkerjl@gmail.com> wrote:

> Honorable Mayor and Councilmembers;
>
> Please include these comments as part of the record for the above mentioned public hearing. I represent the Valley Springs HOA which borders Encelia Ave., the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021 during the applicants appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution to our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the round-about of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. We ask that you again vote no on June 21st. Again, please revisit the location of the project and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

Thank you,

Joe Bunker

Valley Springs HOA

Warehouse Chairperson

--

Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

From: malardner@aol.com
To: Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Gabriel Diaz
Subject: Moreno Valley Trade Center comments for the public hearing at the June 21 City Council Meeting
Date: Monday, June 20, 2022 8:07:36 PM

Warning: External Email – Watch for Email Red Flags!

Moreno Valley Trade Center Project concerns:

Since I am unable to attend tomorrow night's meeting I am writing to you with my concerns for this project on the public hearing agenda tonight.

The project at first may sound as if it has been scaled back to reduce impacts from the project but most of the changes are minor and still result in significant impacts as before.

The reduction in the size of the building is minor as the square footage is only reduced by less than 5 % from the previous proposed size.

The number of truck loading docks will only reduced by 4 out of a total of 117 on the south side of the building closest to the homes - that is still 113 loading docks on the south side nearest homes! And another 90 loading docks (instead of 97) on the north side. 203 loading docks total! That is a lot of loading docks and would not be a significant change to the amount of noise and air pollution coming from this activity. And another 228 tractor trailer parking spaces besides the loading docks. That is a lot of trucks in a relatively small area right next to existing homes.

The visual impact is changed but not reduced. Instead of the current scenic vistas, the existing homes houses will have a view of a 35 foot berm right along Encelia Avenue just feet from the homes and way taller than the one story homes there. This berm will block a view of the building more but still remove any vistas they now have. And none of the changes will reduce pollution impacts or impacts to roads.

While this project appears to remove traffic impacts to Encelia Avenue itself, there will still be more trucks in the area that will pollute the air, damage roads, continue to run over curbs at the too small roundabout and impact the too small overpass and ramps at Redlands Blvd with no proposal to improve anytime soon. There will be a high volume of employee cars also added to Redlands Blvd. and at certain times of day is very busy already.

As far as providing construction jobs, the homes that were zoned for the area would also provide construction jobs and there is a very high demand for more housing. The city is also proposing more homes just to the southwest of this trade center and those potential residents have no say in this proposal since it has not been developed yet and would impact them as well especially from noise and air pollution.

This project is also right next to the Prologis Development on Eucalyptus that was made to revise their proposal to keep large buildings away from the homes that are now going to be impacted by this proposal. How is it right to have that developer revise their project to keep it further from the homes and now put a bigger building even closer to those same homes?

This is also another change to the very new general plan that was supposed to be a vision for the city for many years to come. What is the point of all of the work that went into the general plan to turn around and immediately change it? As the planning commission pointed out this is not the right place for this project and there is already a nearby very large area approved in the current general plan for this type of project (WLC).

Melody Lardner
34 year resident of Moreno Valley

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: TOM HYATT <cdftom@aol.com>
Sent: Sunday, November 6, 2022 8:02 PM
To: Gabriel Diaz
Subject: MVTC

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

I sure hope you aren't in favor of this project? Your priority should be the health and safety of your constituents (families with children and disabled adults), not the $$ interests of the warehouse developers. Move this east of Redlands NOT NEXT TO AN EXISTING Residential neighborhood! The developer offered to pressure wash the pollution off of our houses at the last council meeting! Are you kidding?? That tells you all you need to know about the hazards of this project and the other proposed projects near our neighborhood. If they offered to do this to your house because of the pollution, you would laugh at their face. NO to this project. There is talk of class action lawsuits. Hoping common sense and decency will prevail.

Tom H.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: Ken Morin <kenmorinrealtor@gmail.com>
Sent: Sunday, November 6, 2022 8:45 PM
To: Gabriel Diaz; David Marquez; Edward A. Delgado; Elena Baca-Santa Cruz; Sean P. Kelleher; Ulises Cabrera; Dr. Yxstian A. Gutierrez
Subject: MVTC, LLC A DELAWARE LIMITED LIABILITY COMPANY vs Residents of Moreno Valley

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good evening Ladies and Gentlemen,

I sincerely hope that my neighbors and I can all count on your support to deny this request to change the general planning on zoning of the parcels north of Encella and west of Redlands blvd where the Halls Nursary is located. Allowing this to be changed from residential to BP and industrial is unconscionable. There should be a buffer zone between BP, Industrial and residential zones.

Our residences are within 1/4 mile of this area and it is unhealthy for our families. It will also decrease the value of our homes. There is already too much truck traffic in the area. Sometimes I come home to see transport trucks parked on our residential streets and sometimes even idling. These still happens even with the signs posted at the new Redlands blvd roundabout which we were told was to prevent trucks to move south of eucalyptus.

I sincerely hope you work in our best interest at the next hearing on Nov 15 and not be swayed by developers.

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

--
Ken Morin
Century21 Full Realty Services
Dre 01764881
951-445-0911

Attachment: City Council - Public Comments Packet 1 of 3 [Revision 3] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: Dio Perez <supremepest@msn.com>
Sent: Monday, November 7, 2022 9:39 PM
To: Gabriel Diaz

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Please vote NO the Truck Stop development on Redland Blv.
This is my home that I work hard so I can have a please to have chicken etc.
Having A Truck Stop near us is not good for our heath.
Please Please Vote No.
Thank you so much.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: Dio Perez <supremepest@msn.com>
Sent: Monday, November 7, 2022 9:58 PM
To: Gabriel Diaz

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Please vote No on the Sport Park that is proposed on Ironwood/Redland Blv That park will light up our rural are and bring crime to our quiet low crime area.
Please VOTE No.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: George Hague <gbhague@gmail.com>
Sent: Tuesday, November 8, 2022 10:07 AM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center (MVTC) offsite offers and impacts to current families

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good morning City Council,

The Moreno Valley Trade Center (MVTC) with all their off sites offers to you are trying to put lipstick on a pig with the hope you will be willing to sacrifice the families who will be forced to live (24/7/365) very near the project which could be built to a height of at least 100 feet (almost 10 stories) — on land currently zoned for homes.

Below my name are some of the harmful polluting impacts that caused the Planning Commission to vote unanimously against the project and which the developer's own documents show they cannot avoid if the project is built.

Sincerely,

George Hague

"5.1 **SIGNIFICANT ENVIRONMENTAL EFFECTS THAT CANNOT BE AVOIDED IF THE PROJECT IS IMPLEMENTED**

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. **The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:**

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. **This would be a significant and unavoidable direct impact.**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* **would be significant and unavoidable** on both a direct and cumulatively-considerable basis.

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOx **emissions would be significant and unavoidable** on a direct and cumulatively-considerable basis.

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG **emissions and would result in a cumulatively-considerable impact to the environment.**" (page 5-1 in MVTC Final EIR)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: Jeff Sims <arlenego@verizon.net>
Sent: Tuesday, November 8, 2022 10:55 AM
To: Sean P. Kelleher; Manuel A. Mancha
Subject: MVTC - Appeal PAA21-0001
Attachments: 11 08 22 (MVTC Appeal).pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Hi Sean and Manny,

Attached is correspondence I ask to be included in the November 15, 2022 Council Packet regarding the continued appeal hearing for the MVTC.

Thanks much,

Jeff Sims
28721 Handel Court
Moreno Valley, CA 92555

951.809.3308

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 7, 2022

To: Honorable Mayor and City Council Members
City of Moreno Valley

From: Jeff Sims
Area Resident
City of Moreno Valley Planning Commissioner

RE: Moreno Valley Trade Center
Appeal PAA21-0001

On October 28, 2021, the Moreno Valley Trade Center ("MVTC or Project") was considered by your appointed Planning Commission, which I currently am a member, and unanimously denied entitlement approvals. On December 7, 2021, the Developer appealed this decision of the Planning Commission to the City Council. After considerable input by interested stakeholders, Council Members deliberated. Deliberation comments by Council Members Delgado, Cabrera, and Marquez suggested a potential majority may vote to uphold the Planning Commission's decision. Mayor Gutierrez acknowledged this with his statement "it doesn't appear there is support for the project." Instead of calling for the vote, Gutierrez motioned for a continuance, which was seconded and approved. Apparently, the continuance was to give the Developer time to address concerns and objections stated at the Planning Commission, and City Council appeal.

Of note the Developer heard the concerns and objections regarding the project at the October 28, 2021 Planning Commission Hearing where it was unanimously denied but cavalierly five weeks later at the City Council Appeal Hearing addressed none of the concerns. A person could go down many paths on why none of the concerns were addressed. But an obvious reason is Hillwood's motivation is profit driven with little to no concern of the impacts on the City, and especially for the existing residential neighborhood directly adjacent to the proposed MVTC. Hillwood wants the Project entitled to achieve their goal of maximizing profit.

The continued appeal was scheduled for June 21, 2022. The Developer at the last minute pulled the item from the agenda. It is understood the Developer between December 7, 2021, and June 21, 2022, offered some "City Benefits" including a proposed Developer funded park near Ironwood and Redlands Blvd., and a $500,000 cash contribution to the Moreno Valley Community Fund (of which I understand the Council Members control the allocation and disposition of the funds).

Although at the time of writing this letter the Project Conditions and Agenda Packet for the November 15, 2022, meeting was not available it is my understanding after speaking with City Planning staff these "City Benefits" are still on the table, and the plans and conditions for the Project are essentially the same as those proposed in June. The question I ask each of you is – is the offering by the Developer to influence approval of their Project adequate consideration for the actual harm and damage it will

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

impose on your citizens who live in the existing residential neighborhood directly next to this proposed project?

As one of your appointed Planning Commissioners I find the project is a nice logistics/warehouse project, but in the wrong location. Its location simply is not compatible with the existing land uses adjacent to it. Below are some of the concerns I had and still do about the MVTC:

1. Incompatible Land Use - The proposed MVTC land use is not consistent with the City of Moreno Valley General Plan Update. The General Plan Update indicates R-2 zoning for the property where the MVTC is proposed. The General Plan Update process and the entitlement review process for the proposed MVTC was happening concurrently over a two-year time frame. It is hard to believe city planning staff, city leadership, including the Council was not aware of the proposed MVTC during the processing of the General Plan Update. The General Plan process considered the need to retain compatible land uses adjacent one another and appropriately retained a residential land use adjacent the existing half and third acre residential lots directly adjacent to the property where the MVTC is proposed. Your Planning Commission recognized the incompatibility of land uses and denied the MVTC entitlements due to its lack of consistency with guidance of the City's General Plan as approved by this Council. Why go through all the effort to develop and approve a General Plan and then not honor it?

2. Traffic – The original MVTC design proposed for maximum utility of a warehouse use resulting in a design where thousands of daily employee passenger car trips would be dumped onto Encelia Avenue. Encelia Avenue is a one lane in each direction residential street and one of the two main access points into the adjacent existing rural residential neighborhood. The Developer indicated at the Planning Commission Hearing "they tried everything they could to mitigate impacts on the adjacent neighborhood, but the design as proposed was necessary so truck traffic in and out of their proposed project would not interface with their employee ingress and egress." Their proposed solution to the problem they are creating is to make a forever problem for the existing neighborhood. Now the Project has been modified to not allow project traffic onto Encelia Avenue by building a 40 ft. wide private street that runs parallel to Encelia Avenue. This close to half mile long private street will be "masked" from sight behind a 35 ft. tall berm, but the adjacent neighborhood will undoubtedly be subjected to significant increases in noise and forced to breath the air pollution as this road is only 250 feet away from existing homes along Encelia Avenue. Since this is a proposed logistics/warehouse operation with no time limits on operation, the noise and pollution will be imposed on the existing neighborhood 24/7 – 365.

3. Air Pollution – Although I am a registered civil engineer, I am not technically versed in the details of air pollution. But it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in air pollution in the vicinity. Hillwood in hopes to placate nearest residents offers band aid mitigation.....ask yourself, would I want my family to breathe in diesel soot 24/7 – 365 for as long we continued to live there? Who wants to live where you need air filtration for your home and to have the exterior of the house power washed due to ongoing pollution? Is it fair to the citizens who invested in this neighborhood to be polluted on?

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

4. Noise Pollution – Like with air pollution, it does not take an engineering degree to know regardless of what study says what, when thousands of daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in noise pollution in the vicinity. Hillwood in hopes to placate nearest residents again offers some band aid mitigation.....ask yourself, would I want that right next to my house? Councilmember Cabrera during the appeal hearing stated his first-hand experience about noise impacts from the logistic/warehouse use near his home and indicated it was noticeable. There will be increased noise pollution happening all hours of every day. The revised and current Project plan shows a truck circulation plan where trucks will be driving parallel along Encelia only 250 ft. away from homes 24/7 – 365. The 40 ft. wide private road is on the neighborhood side of the proposed 14 ft. screen wall. The screen wall does nothing to mitigate sounds from the trucks using the private drive. Essentially the Developer eliminated the traffic problem onto Encelia Avenue but did so at the expense of increased noise and air pollution – both of which are clearly incompatible with the existing residential neighborhood.

5. No boundary/perimeter fencing along Encelia Avenue – As mentioned above under #2 "Traffic", the project proposes installing a massive 35 ft. high landscaped berm along Encelia Avenue with a goal to mask the project from the existing residential neighborhood. The berm will obliterate existing northerly viewsheds currently enjoyed by the existing neighborhood. The Developers own plans show cross sections of this berm to scale (attached). When looking at the cross section, notice the relationship of the person to the height of the berm and trees. The area of open space on the south side of the MVTC property, including the landscaped berm totals around 7.5 acres with no perimeter fencing along Encelia Avenue. If the Project is approved and built as proposed, going north toward the Project from the northerly right of way of Encelia Avenue there will be a 35 ft. high landscaped berm (relative to existing centerline of Encelia Avenue), then a landscaped open space between the berm and a 40 ft. wide private street for ongoing truck circulation, and then a 14 ft. high screen wall. Attached are cross-sections showing all of this from the Developers plans. Concern about this include:

    a. The 14 ft. screen wall does nothing to constrain any of the noise from the truck traffic using the 40 ft. private street as the private street is on the neighborhood side of the screen wall. The private street is being proposed to enable trucks to access docking on both the north and south side of the proposed building 24/7 – 365 days per year from Eucalyptus only.

    b. As proposed, there is no perimeter fencing for the Project along Encelia Avenue to stop unwanted loitering, camping, or trespassing on the privately owned 7.5 acres of landscaped open space. With Encelia Avenue kept as a quiet, low traffic residential street directly adjacent a large unfenced open space, one can reasonably anticipate this unfenced, unsecured open space area will become attractive to homeless along with the problems associated therewith. This would be further exacerbated if the Pilot Travel Center is approved on appeal to Council. The residents living in this neighborhood while at work to pay for their homes they invested in will have to worry about increased

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

property theft, and other crimes potentially carried out by those occupying the unfenced, unsecured open space.

When deliberating on this project, I ask you to think about these five above compatibility issues. But beyond straight compatibility issues there are other concerns.

For those who drive Redlands Blvd. on a routine basis to access the 60 Freeway know the roundabout at Eucalyptus is challenging now during peak periods caused by existing traffic. You don't have to be a traffic engineer to know this will be exacerbated with the addition of the proposed MVTC. This problem will remain for decades until the Redlands/60 interchange is upgraded. I say decades because as a resident of the City of Moreno Valley living in the east end since 1994, I've seen how long the Moreno Beach interchange has taken to be improved, and it's still not done. The City is getting the cart in front of the horse approving major truck and traffic producing projects where supporting road infrastructure is obviously deficient. The Redlands Blvd/60 interchange is deficient for more truck traffic and addition of the proposed MVTC will further degrade the quality of life of area resident's dependent on this interchange. The daily drive in and out of Moreno Valley is already miserable during morning and evening commute times due to existing freeway congestion on the 60 between the 60/215 interchange and 60/91 interchange. Absent an improved Redlands/60 interchange the MVTC will add more time lost to sitting and slogging through added traffic congestion trying to get off 60 at Redlands and navigating through the roundabout. I am sure most, if not all, of the area resident who use the 60 to get to work agree the proposed MVTC will exacerbate an already miserable daily commute.

The Moreno Valley portion of the draft LAFCO Municipal Services Report is attached. As you know LAFCO is an unbiased governmental entity to monitor services provided by various municipalities within Riverside County. There are some interesting findings in this unbiased report you as elected leaders of this City should be mindful of:

1. The median household income in Moreno Valley is lower than the rest of the County of Riverside
2. Moreno Valley's population grew slowly during the last decade at just 0.77%
3. Population growth over the next 15-25 years is not expected to keep up with county-wide growth rates
4. The City's land use profile "is disproportionately skewed towards industrial development with almost 75% of the City's commercial square footage designed for industrial users"
5. Largest employers are distribution centers
6. The City will not meet its Regional Housing Needs Assessment 6th cycle (RHNA) in all income categories.
7. FY 2018/19 revenues = $171 M FY 18/19 expenses = $149 M
8. Major sources of income:
    a. Property tax
    b. Sales tax
    c. Property tax in lieu of vehicle licensing fee
    d. Utility tax

Supporters of large box distribution/logistic facilities tout benefits of "job creation", increased ability to work near home, and "living wages". If this is true, why is the median income in Moreno Valley lower than the rest of the County of Riverside? Why is our population growth slow and expected to stay slow? Perhaps it is because most logistic/distribution jobs don't pay living wages sufficient to own and buy a

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

home. Also, perhaps the word on the street now is Moreno Valley is becoming a less attractive place to live and raise a family because of the disproportionately skewed land use of industrial development that creates traffic congestion, difficulty to get in and out of Moreno Valley, low paying jobs, and added air and noise pollution.

This Council recently approved the City's General Plan with this property planned for residential development consistent with the existing residential directly adjacent. At a minimum even if you can somehow find a way to justify the "benefit" of the proposed MVTC over the irreparable harm to the existing area residents, an approval in land use change from residential to industrial shows continued disregard by the City in meeting its Regional Housing Needs Assessment (RHNA) metrics. Perhaps a more appropriate use for the property is a rezone from R-2 to residential zoning proposing a transition of R-2 along Encelia Avenue to higher density residential along Eucalyptus. At least there would be a buffer for the existing residential use with similar and compatible uses. Under this scenario, people moving there would do so acknowledging/accepting the surrounding existing land uses. And with transitional higher density residential, the City could indicate progress towards meeting RHNA metrics by providing more opportunity for affordable housing consistent with Moreno Valley incomes.

We all know the City likes added tax increment revenues from development. If the MVTC is built on this property, the property tax increment received by the City see an initial large increase (over current) then see only small incremental increases due to Prop 13 legislation. In contrast if developed as residential land use consistent with the General Plan, the City would also receive an initial large increase in property taxes, plus receive added sales tax, and added utility taxes as the added population will live, shop, and spend in Moreno Valley. Also, as part of a residential development the residential developer would be required to pay impact fees such as park fees.

Saying no is hard especially on union supported projects. Labor unions focus on keeping their dues paying members employed. But how many of those dues paying union members live in Moreno Valley or anywhere near where this project is proposed? The reality is not many do. After a union supported project is approved those same union representatives will be at the next Planning Commission and Council Meeting in whatever town the next project is proposed. I certainly understand it is quite an undertaking to get elected and re-elected. It takes backing and money to get exposure. Hats off to all of you seeking elected office. Maybe it's a bit naïve on my part, but it would be nice to believe those seeking elected office remember the people who live, shop, and spend in Moreno Valley are the ones who are most impacted by the consequences of the decisions. Out-of-towners and special interest campaign contributors who participate to influence local city elections won't live with the negative, harmful impacts of the projects they support. In the recent special election in April, the council seat win was not by significant margin which may be indicia people are beginning to take note of the policies and stances of people seeking elected office here in Moreno Valley. As traffic in and out of Moreno Valley gets worse and neighborhoods are impacted by traffic, noise, and air pollution from these warehouse projects it is likely there will be less support for leadership who supports approving them.

Many cities are pushing back on warehouse/logistics project approvals. There is an awareness of the incompatibility of these land uses adjacent to or near existing residential land uses. With what Moreno Valley has already approved in this land use waiting to be built (World Logistics Center) perhaps tapping the brakes a bit would not be a bad decision.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

In the event the Council makes findings and justifications indicating the proposed MVTC has more benefit to the City than harm despite Planning Commission denial and significant area opposition, it is requested the Council condition the MVTC with the following added improvements:

1. **Addition of perimeter fencing along the entire length of Encelia Avenue such 6 – 8 ft. high metal fencing with masonry pilasters. Common sense should make this an obvious requirement.**

2. **Record an irrevocable deed restriction or some other legally sufficient mechanism on the property forever disallowing any project traffic onto Encelia Avenue. The only exceptions would be -access for emergency by Fire or Police, and if the property in the distant future was redeveloped into residential.**

3. **Addition of a traffic signal at the intersection of Redlands and Dracaea.**

4. **Full improvement of the west side of Redlands Blvd. between Encelia and Dracaea. It is anticipated the proposed MVTC is already conditioned to fully improve Redlands Blvd. along its frontage between Eucalyptus and Encelia and provide for adequate transition from full improvement on Redlands for southbound traffic to the existing two-lane roadway on Redlands between Encelia and Dracaea. This would complete Redlands Blvd. between Eucalyptus and Cottonwood and be an incremental add to the project conditions.**

Items 3 & 4 are needed to provide area residents with safe access to Redlands Blvd. and ability to leave the area via Cottonwood to Moreno Beach or Alessandro to avoid congestion at the roundabout and unimproved 60/Redlands interchange. To provide some equity to the MVTC Developer, the Developer and the City could enter into a reimbursement agreement where MVTC would be reimbursed some proportionate amount from other developers within an identified Benefit Area who benefit from Redlands Blvd. street improvements. For example, there is undeveloped property along the west side of Redlands Blvd. between Encelia and Dracaea. The developer of this property would likely be conditioned to build out this improvement if not already built. It would seem reasonable this developer would be required to contribute a proportionate share of the expense paid by MVTC for making the improvement.

As a Planning Commissioner for close to 10 years I have participated in the approval of most warehouse/logistic projects in this City. This includes voting yes for the World Logistics Center (WLC) despite living close to it. What WLC has going for it is a plan for buffering the impacts of its project from the existing residential and eliminated truck and employee traffic from Redlands Blvd. with access from Theodore now WLC Parkway. Most other warehouse/logistic approvals in the City have been in areas where the existing underlying land use zoning allows for warehouse/logistic use, or the projects are located where there are existing non-residential land uses, and city approved truck routes.

The proposed MVTC even as modified to eliminate traffic on and off Encelia Avenue, will create irreparable harm to the existing residential neighborhood. These residents bought homes in this area with a reasonable expectation City elected would respect and protect their investments by not approving incompatible land uses on adjacent property. Prior Planning Commissions and City Councils have done that in the past. For example, when Pro-Logis was developing along Eucalyptus east of the auto center, they responsibly agreed with area resident and city leadership to maintain a buffer of their proposed industrial use to the existing residential and eliminated two buildings from their project.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Saying no is hard but needs to be done sometimes. This is one of those times. The harm the proposed MVTC creates far outweighs the tax revenue increase this project will generate, a proposed park, and $500,000 cash contribution. There is still around 2,800 acres of property approved for warehouse/logistics on the east side of the Redlands Blvd. This existing neighborhood does not deserve having this incompatible use built right on top of it. A yes vote on the proposed MVTC benefits out-of-town developers who will enjoy profits at the expense of city residents.

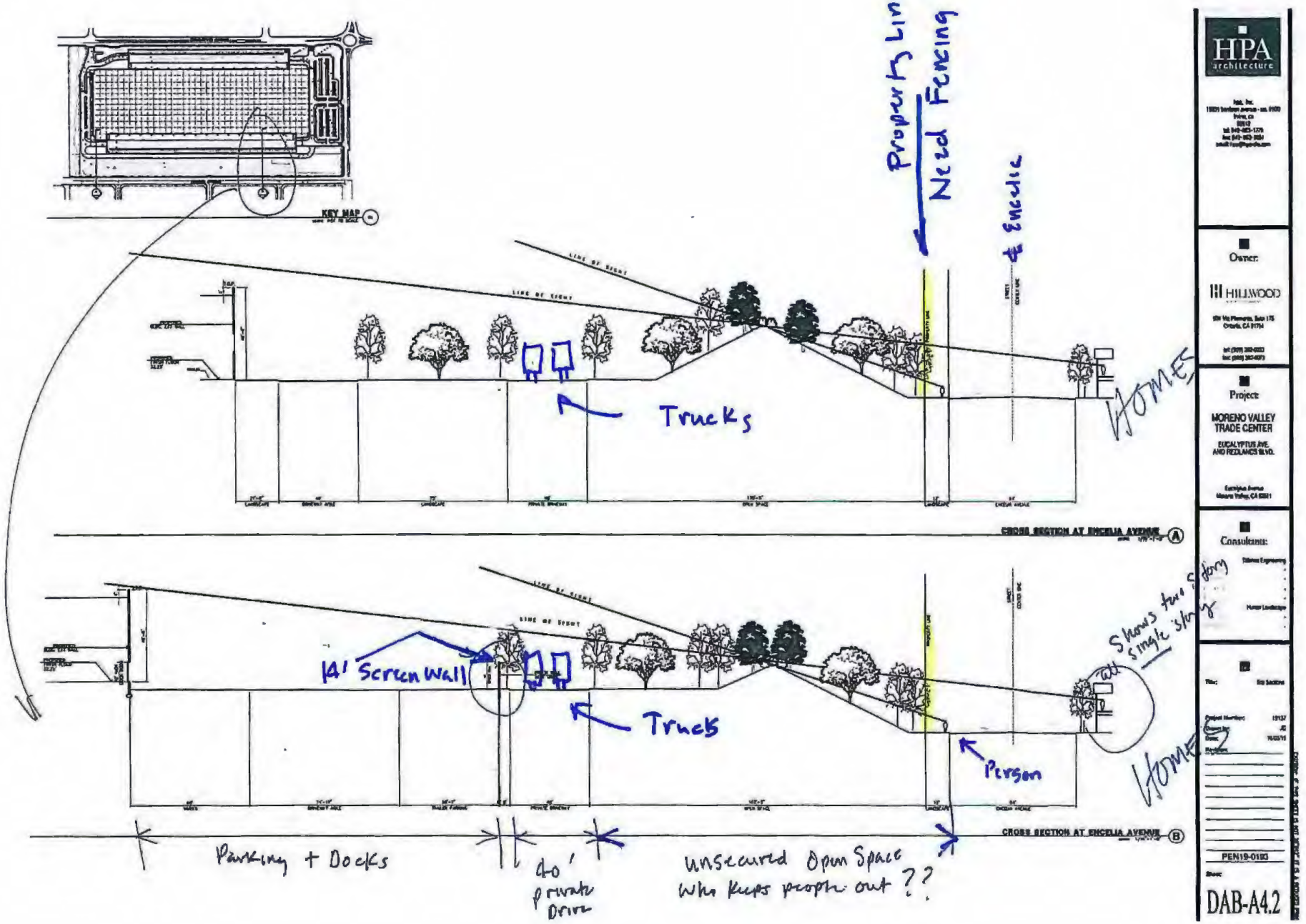
Please do right by the approximate 1,000 citizens who have invested and live in the approximate 250 homes between Encelia and Cottonwood who pay taxes, shop, spend, and vote in Moreno Valley. **VOTE NO ON APPROVAL OF THE PROPOSED MVTC UPHOLDING YOUR PLANNING COMMISSION'S DECISION AND YOUR RECENT GENERAL PLAN APPROVAL.**

I apologize for the long letter but thank you for your time to read it as part of your considerations in coming to a decision. If you have any questions or would like to discuss, please feel free to contact me.

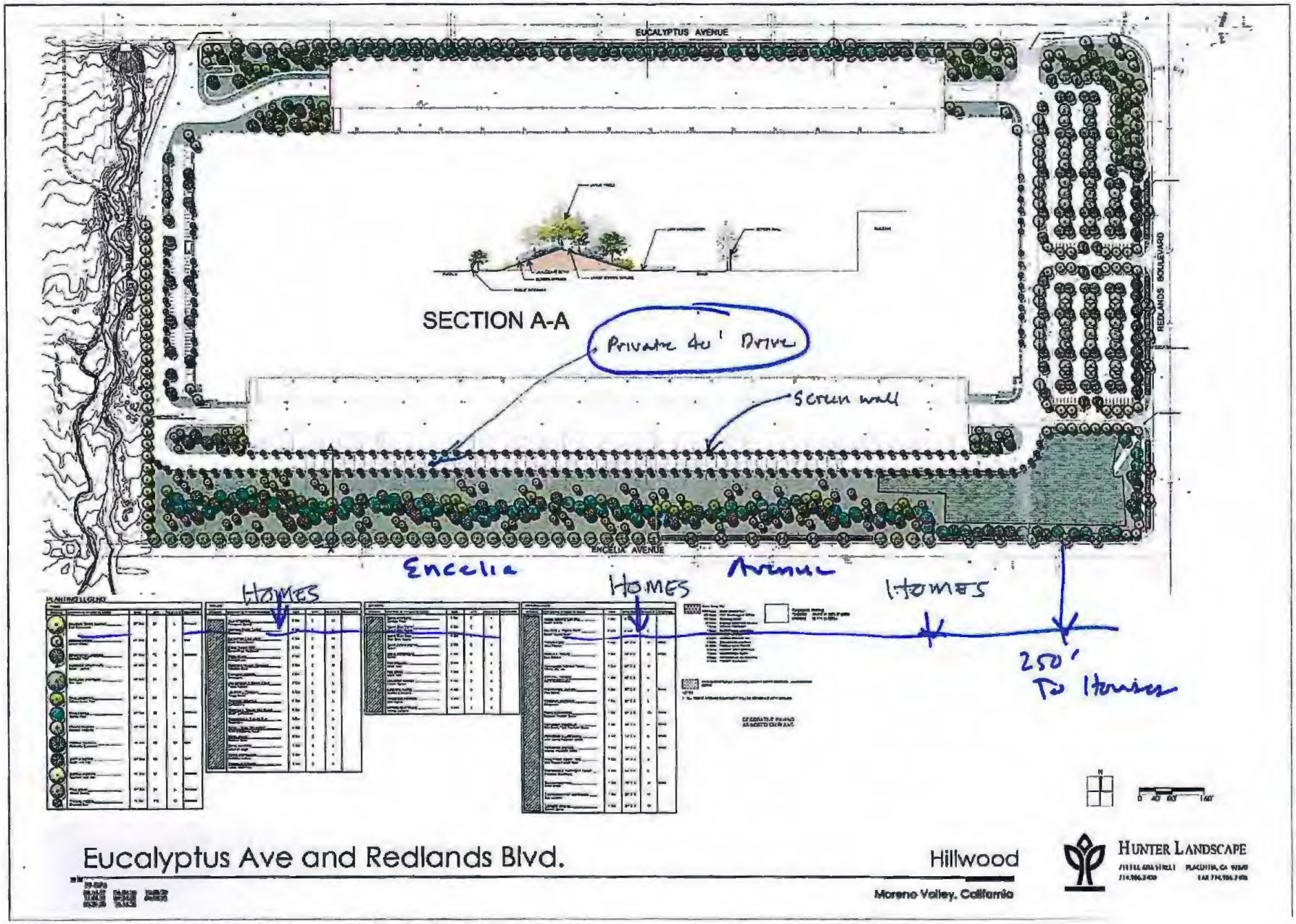
Jeff Sims
City of Moreno Valley Resident
Planning Commissioner – City of Moreno Valley

1. Cross-section along Encelia (Developer Plan DAB-A4.2)
2. MVTC overall site and landscape plan
3. Pages 225-251 of Public Review Draft - LAFCO City MSR and SOI Update dated March 29, 2022

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)



Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade



Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade

Local Agency Formation Commission for the County of Riverside

6216 Brockton Avenue, Suite 111-B
Riverside, CA 92506

City Municipal Service Review and Sphere of Influence Update

Riverside County

LAFCO 2021-06-1, 2, 3, 4, 5

Public Review Draft – March 29, 2022

RSG

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

CITY OF MORENO VALLEY

The City of Moreno Valley incorporated in 1984 as a general law city in the County's Western Region.[110] The City's northern, eastern, and the majority of the southern boundary is shared with unincorporated Riverside County territory. Most of the City's southern boundary is adjacent to the Lake Perris State Recreation Area. The City of Perris boundary is immediately south of a portion of Moreno Valley. The City's western edge is bound by the March Air Reserve Base, City of Riverside corporate boundary, and unincorporated territory. The City's incorporated boundary covers an area of 51.3 square miles and the City's SOI extends northwest and southeast to encompass an additional 15.5 square miles, for a combined 66.8 square miles.[111]

The City's demographic profile is presented in Figure 84.

Figure 84: Demographic Profile - Moreno Valley

Moreno Valley	City	SOI	County
Population as of 2020	208,838	150	2,442,304
Population as of 2010	193,365	105	2,189,641
Annual Pop. Growth Since 2010	0.77%	3.63%	1.10%
Housing Units	57,523	55	867,637
Persons / Housing Unit	3.63	2.73	2.81
Land Area (sq mi)	51.3	15.5	7,206.0
Persons / Square Mile	4,071	10	339
Median Household Income	$64,073	$93,293	$67,369
Projected Population in 2035	246,068		2,995,509
Annual Proj. Growth 2020-2035	1.10%		1.37%
Projected Population in 2045	266,814		3,251,705
Annual Proj. Growth 2020-2045	1.65%		1.93%

Sources: California Department of Finance, Southern California Association of Governments, US Census, ESRI Business Analyst Online (Growth rates are presented as annual growth rates)

[110] Source: City of Moreno Valley
[111] Source: Riverside LAFCO

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley's population grew slowly during the last decade, increasing at just a 0.77 percent annual growth rate to a total population of almost 209,000. Moreno Valley is the second-largest city in the County of Riverside. Moreno Valley has large households (3.63 persons per household) and a high population density (4,071 persons per square mile) when compared to the County averages (2.81 persons per household and 339 persons per square mile). The population projections over the next 15 to 25 years indicate that population growth will increase, but growth is not expected to keep pace with County-wide growth rates.

The City's SOI contains a population of just 150, spread across 55 households. The City's median household income is slightly lower than the County-wide average, while the median household income in the SOI is about 38 percent higher than the County-wide average.

The City's land use profile is disproportionately skewed towards industrial development, with almost 75 percent of the City's commercial square footage designed for industrial users. During the last decade, the City added over 9.3 million square feet of industrial space, representing about half of the City's commercial development. While this is a significant increase in square footage, a lot of the City's development can be attributed to retail projects. The City's housing inventory is concentrated in single-family housing, representing more than 80 percent of the City's units.

Aligned with the City's land use profile, several of the City's largest employers are distribution centers, including Amazon (7,500 employees), Ross Dress for Less/DD's (2,400 employees), Sketchers USA (1,200 employees), Harbor Freight Tools (788 employees), and Deckers Outdoor (700 employees). The remaining top ten employers include March Air Reserve Base (9,600

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

employees), Riverside University Health Systems Medical Center (3,400 employees), Moreno Valley Mall (1,500 employees), and Kaiser Permanent Community Hospital (1,457 employees).[112]

Moreno Valley's land use summary is presented in Figure 85.

Figure 85: Land Use Summary - Moreno Valley

Moreno Valley			County
Residential Units	Units	%	%
Single Family	46,378	80.6%	54.8%
Multifamily	9,781	17.0%	43.6%
Mobile Home	1,364	2.4%	1.6%
Total Units	57,523	100.0%	100.0%
New Units Since 2010	1,964		
Commercial	Gross SF		
Retail	8,080,993	20.9%	26.6%
Industrial	28,896,728	74.9%	61.8%
Office	1,512,415	3.9%	9.6%
Other	103,295	0.3%	2.0%
Total	38,593,431	100.0%	100.0%
New Commercial Since 2010	20,028,947		

Sources: California Department of Finance (2020) and Costar (Other includes hospitality, healthcare, specialty, sports and entertainment)

CURRENT SPHERE OF INFLUENCE, ISLANDS/POCKETS, AND DUCS

The City of Moreno Valley's SOI consists of three (3) noncontiguous areas, illustrated in Exhibit 12. The City's eastern SOI is the largest of the three (3) areas, stretching eastward into the hills along State Route 60 and southward along Gilman Springs to encompass the area known as Mystic Lake, which is a seasonal body of water. The City's northwestern SOI extends west to the City of Riverside's existing SOI in the hills north of State Route 60, in an area that is largely overlapping the Box Springs Mountain Reserve Park. The City's third and smallest SOI area

[112] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

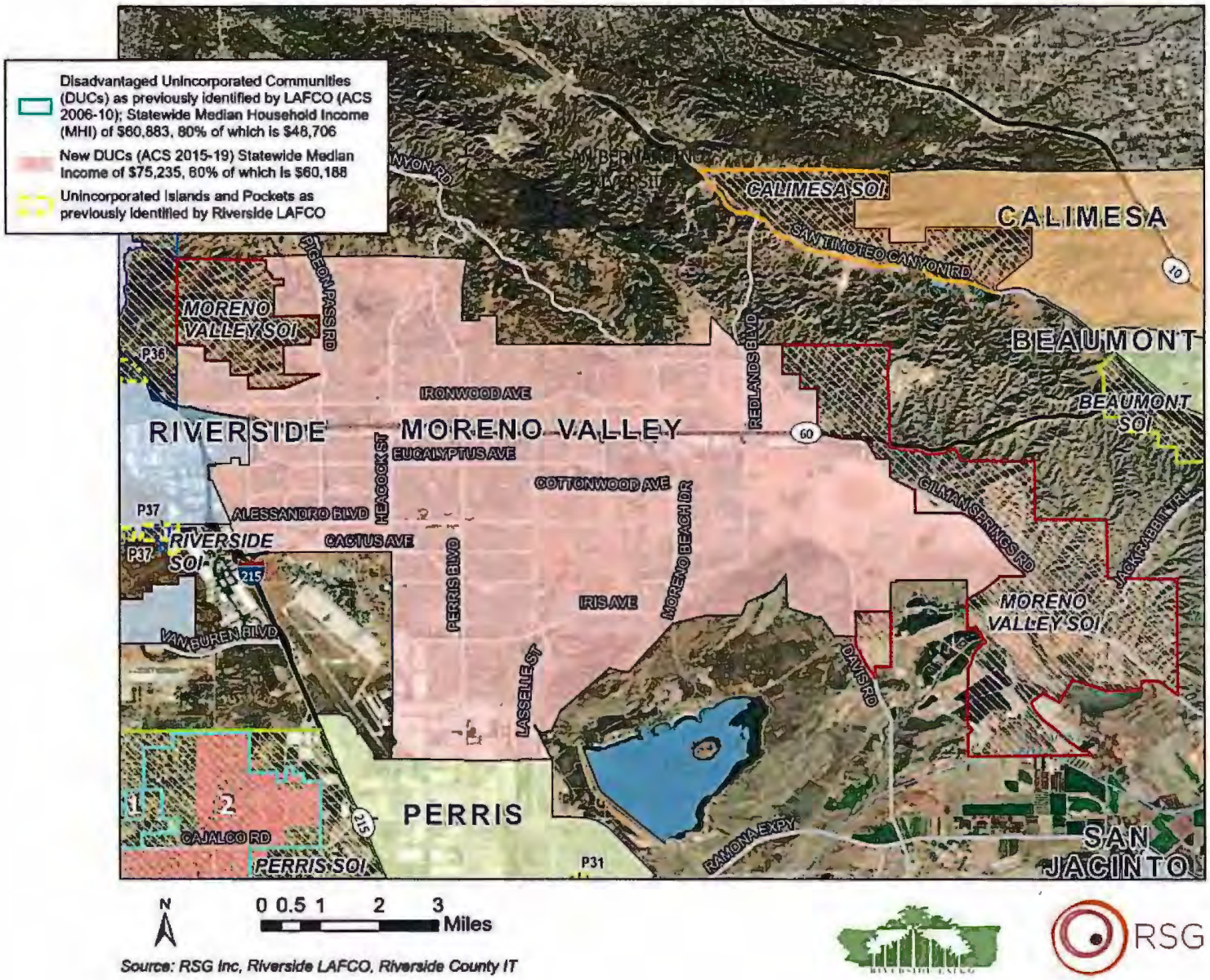
extends south from the City's southern boundary adjacent to Lake Perris State Recreation Area, east of Davis Road.

The SOI does not contain LAFCO-identified DUCs or unincorporated islands and pockets.

Moreno Valley's boundary was previously reconfirmed in the September 2006 Central Valleys, The Pass Area and Southwestern Riverside County MSR (LAFCO 2005-49-3&5; LAFCO 2005-48-5; LAFCO 2005-47-1&3) (the "2006 MSR").

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

City of Moreno Valley and Sphere of Influence



Source: RSG Inc, Riverside LAFCO, Riverside County IT

Exhibit 12: City and SOI Boundaries - Moreno Valley

City of Moreno Valley
City Municipal Service Review and Sphere of Influence Update
Riverside County

Public Review Draft – March 29, 2022

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade

FORM OF GOVERNMENT AND STAFFING

The City of Moreno Valley is a "Council – Manager" form of government, with a City Council that includes five (5) members, including one Mayor elected at-large, and four (4) Councilmembers elected according to district boundaries. The Mayor serves a two (2) year term while Councilmembers serve four (4) year terms. The City Council appoints a City Manager, who serves as the head of the administrative branch of the City government.[113]

The City Council also serves as the Housing Authority, Successor Agency, Moreno Valley Community Services District, Public Financing Authority, and Public Facilities Financing Corporation. Several boards, commissions, committees, and councils carry out assignments as directed by the City Council, including the Accessibility Appeals Board, Environmental and Historical Preservation Board, Senior Citizens Advisory Board, Arts Commission, Library Commission, Planning Commission, Traffic Safety Commission, Utilities Commission, Moreno Valley Citizens Public Safety Committee, Parks Community Services and Trails Committee, and the Emerging Leaders Council.[114]

The City Manager reports directly to the City Council and oversees a staff of 375 full-time equivalent personnel.[115] The City's annual operating expenditures ranged from $118 to $150.3 million between 2016-17 2018-19.[116]

SERVICES PROVIDED

City staff provide the community with building and planning, housing, code enforcement, animal control, parks and recreation, landscape maintenance, streets and road maintenance, lighting, utilities, stormwater drainage, and innovation and technology services. The following section describes municipal services provided within Moreno Valley and identifies the service provider.

[113] Source: City of Moreno Valley
[114] Source: City of Moreno Valley
[115] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report
[116] Source: California State Controller's Office, "Cities Financial Data"

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Figure 86 summarizes the municipal services provided within the Moreno Valley city limits by the City or by other service providers.

Figure 86: Service Provider Matrix - Moreno Valley

Public Service	Service Provider	City Department	County	Small Independent Special District	Large Independent Special District	Small Dependent Special District	Large Dependent Special District	Private Contractor	Franchise	Shared Service	Other
Law Enforcement	Sheriff		■								
Fire Protection	Fire/CalFire		■								
Emergency Medical	Fire/CalFire		■								
Building/Planning	Community Development	■									
Housing	Housing Authority	■									
Code Enforcement	Community Development	■									
Animal Control	Community Development	■									
Parks and Recreation	Parks and Community Services, CSD, Regional Parks	■				■	■				
Library	Library, Library System	■	■								
Museum	Historical Society							■			
Landscape Maintenance	Public Works, CSD, LLMD, & CFD	■				■					
Streets/Road Maintenance	Public Works, CSA	■					■				
Streetlights	Edgemont CSD, CSD, LLMD, & CFD				■	■					
Lighting	Public Works, CSD, LLMD, & CFD	■				■					
Utilities	Electric Utility, Edison, So Cal Gas	■							■		
Solid Waste	Waste Management								■		
Stormwater Drainage	Public Works, Flood Control & Water Conservation	■					■				
Innovation and Technology	Financial & Management Services, Spectrum, AT&T	■							■		
Airport	N/A										
Cemetery *	N/A										
Healthcare *	N/A										
Water *	Eastern Municipal Water District, Edgemont CSD				■						
Wastewater *	Edgemont Community Services District				■						

* Not included in this MSR

Government Services

General government services in the City of Moreno Valley are provided by the elected City Council, and appointed staff like the City Manager and City Clerk. The City Manager serves as the Chief Executive of the City and is responsible to the City Council for the efficient management of all City business including implementation of Council policies and programs, providing direction to departments that administer City programs and services, coordinating intergovernmental relations and legislative advocacy efforts, and administering the outsourcing agreements through which Public Safety services are provided. The City Clerk is responsible for the administration of all municipal elections, access to and management of City records, preparation of agendas, recording and maintenance of all Council actions, maintenance of the Municipal Code, and serves as the official custodian of the City seal.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Law Enforcement

Moreno Valley receives law enforcement services from the Riverside County Sheriff Department. The Sheriff provides general policing services including, investigations, special enforcement, school resources, traffic enforcement and patrols, community services, crime prevention, and the administration of the volunteer program and the Explorer youth program.

The 2006 MSR presented the following determination:

- Law enforcement services were being provided at a level below the City's standard of 1 sworn officer per 1,000 people.

According to City staff, the recently adopted General Plan identifies City policies for providing responsive, efficient, and effective law enforcement services that promote a high level of public safety. Furthermore, City staff noted that the City no longer has a policy specifying a number of sworn officers per 1,000 residents.

Fire Protection

Fire Protection services are provided by Riverside County Fire Department/CalFire in Moreno Valley. Since 1921, the Riverside County Fire Department has been in a contractual relationship with CalFire to provide wildland fire protection services. In 1946, the contract between CalFire and Riverside County Fire Department was expanded to include fire protection services. Services provided by Riverside County Fire Department/CalFire include fire protection and prevention, medical response, review of planning cases, review and inspections of construction and developments, fire and life safety inspections of state-regulated occupancies, information on ordinances and standards for construction, and information bulletins and standards for fire protection. Fire Stations 2, 6, 48, 58, 65, 91, and 99 are in the City.

The Riverside County Fire Department/CalFire provides fire protection services to 20 cities in Riverside County and the Rubidoux community services district. The Riverside County Fire Department/CalFire also responds to calls for service in seven (7) additional Riverside County cities and the Idyllwild Fire Protection District through mutual and automatic aid agreements.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Emergency Medical

Emergency medical services are provided by the Riverside County Fire Department/CalFire. Please refer to the previous section for more information on the Department.

Building/Planning and Housing (Community Development)

Building, planning, and housing services are provided by the City's Community Development Department through the Planning and Building and Safety Divisions. The Planning Division informs the planning commission, ensures new developments fulfill the City's strategic priorities, and ensures new development is in line with CEQA. The Building and Safety Division conducts plan reviews, issues permits, conducts field inspections, and coordinates permit approvals with City departments and outside agencies.

Code Enforcement

Code enforcement services are provided by the Community Development Department's Code and Neighborhood Services Division. The Division responds to citizen complaints, proactively enforces the municipal code, provides parking control services, and runs the abandoned vehicle abatement program.

Animal Control

Animal control is provided by the Animal Services Division of the Community Development Department. The Division provides humane animal services, sheltering, rabies control, stray animal control, licensing, and public education. A shelter operated by the Division is located in the City at 14041 Elsworth Street.

Parks and Recreation

Parks and recreation services are provided by three (3) entities: The City's Parks and Community Services Department, the Community Services District- Zone A, Community Facilities District No. 1, and the Riverside County Regional Parks and Open Space District. The Department provides

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

maintenance and development of parks, trails and recreational facilities, maintains open space, administers an array of recreational programs, and enforces park rules and regulations. The Community Services District, known also as Zone A, services parks in the City with the Parks and Community Services Department. The District primarily provides funding to the Department for parks and recreation services. The Community Facilities District No. 1 also provides funding to the Department, but funding is reserved for maintenance of facilities. The Riverside County Regional Parks and Open Space District operates the Box Spring Mountain Reserve in the City. The Reserve is located on 3,400 acres of land that overlooks the cities of Riverside and Moreno Valley. The entrance is located at 9699 Box Springs Mountain Road in Moreno Valley.

The 2006 MSR identified the following determinations:

- The City was providing parkland at a ratio that was below the City's standard and noted financing constraints that led to an increase in fee related recreational activities and a degradation of service provision.

According to City staff, the recently adopted General Plan identifies 671 acres of existing and planned parkland which could meet the parkland ratio within a 20-year period. City staff noted that the City also plans to evaluate parkland dedication fees and in-lieu parkland dedication fees to ensure that the City is adequately addressing the community need while maintaining regional competitiveness.

Library

The Moreno Valley Public Library provides library services to the City. The Library is owned and operated by the City. It has two (2) satellite locations in the Moreno Valley Mall and Iris Plaza. The Library provides users of all ages with reading materials in electronic and traditional formats, educational support for students, and literacy programs. The City's Community Services District provides funding for the operations of the Library.

The 2006 MSR presented the following determinations:

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

- The City's Library was too small to hold the City's entire inventory and the City had plans at the time to develop a larger facility.

The City has expanded library facilities to address this finding, adding two satellite libraries that provide library services throughout Moreno Valley. Museum

There is no museum in the City of Moreno Valley.

Landscape Maintenance

Landscape maintenance is provided by the City's Public Works Department through funding from the Community Services District, Landscape Maintenance District 2014-2, and several other special funding districts in the City. The Department provides general landscape maintenance services to public property and oversees any landscape maintenance contracts.

Streets/Road Maintenance

Streets and roads maintenance is provided by the Public Works Department. The Department's responsibilities include the coordination, maintenance, and operation of traffic facilities and roadways, sidewalk and street maintenance, and the management of City capital improvements.

The 2006 MSR identified the following determinations:

- The City's roads and intersections operating below the City's level of service standard.

City staff indicated that streets and roads were in fair to good shape.

Streetlights

The Moreno Valley Community Services District, Zone C Arterial Streetlights, the Lighting Maintenance District 2014-01, the Community Facilities District 2014-01, and the Edgemont Community Services District all provide funding for streetlight maintenance in various parts of the City. The Edgemont Community Services District provides streetlight maintenance services to several neighborhoods in the western part of the City. The District was formed in 1957 to cover

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

the Edgemont area of Riverside County which straddles both the cities of Riverside and Moreno Valley. The other districts provide funding that is used by the Moreno Valley Public Works Department to service the rest of the City.

Utilities (Gas, Electric)

Utilities are provided by the Moreno Valley Electric Utility ("MVU"), Southern California Edison ("SCE"), and the Southern California Gas Company ("SoCal Gas"). The MVU is the primary public electric utility in the City and is run by the Public Works Department. Created in 2001, the utility now serves around 6,600 residents. The traditional regional utilities SCE and Socal Gas both still serve some residents in the City. In Fiscal Year 2018-19 the MVU entered into a financing agreement through Bank of America to acquire the City's streetlights from SCE. According to City staff, the streetlights then underwent an LED retrofit.

Solid Waste

The City has a franchise agreement in place with Waste Management for solid waste collection services. Waste Management is a private solid waste disposal company provides solid waste disposal and recycling services to Moreno Valley residences. Waste Management is one of the largest solid waste companies in North America with more than 45,000 employees serving over 20 million residential, industrial, municipal, and commercial customers.

The 2006 MSR presented the following determinations:

- The City was not disposing of the required amount of solid waste.

City staff indicated that the City has implemented a number of innovative source reductions, recycling, composting, and reuse programs to help meet State diversion goals. The City's current diversion rate is 65 percent, which exceeds the current standard diversion rate of 50 percent. Furthermore, City staff noted that an amendment to the City's municipal code will require a diversion rate of 75 percent by 2025 as required by State law.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Storm Drainage

Storm drainage services are provided by the Public Works Department. The Department is responsible for engineering, designing, and overseeing the construction of capital improvements for flood and storm-water management, and the operation and maintenance of City storm drains.

County Service Area 152 provides funding for the management of the City's NPDES permit program, which is aimed at reducing pollution to underground water tables.

The 2006 MSR presented the following determinations:

- The City's storm water drainage is inadequate.

City staff did not indicate that storm water drainage was inadequate in the City.

Innovation and Technology

Innovation and technology services are provided by the Financial and Management Services Department. The Department manages the City's technology assets, improves hardware, software, and telecommunications, and provides IT support.

Airport

There is no public or private airport in the City of Moreno Valley.

Extraterritorial Services Provided

The City of Moreno Valley does not provide services outside of the City's boundaries. Government Code Section 56133 requires LAFCO approval for extension of services outside a sphere of influence in response to an existing or impending threat to public health or safety.

RECENT AND PLANNED MAJOR CAPITAL IMPROVEMENTS

The City prepares a Capital Improvement Plan that serves as a comprehensive planning document inclusive of revenues and expenditures for capital improvements within the City. The

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

City's CIP is adopted every other year and coordinates with the City's two-year budget cycle. The City plans to make improvements in regard to pavement rehabilitation, street and road improvements, interchange construction, bridge maintenance and construction, drainage improvements, lighting improvements, and community center renovation.

According to City staff, all projects identified above, except for the March Community Center Renovation, are moving forward and funded.

HOUSING NEEDS AND HOUSING ELEMENT REPORTING

The City of Moreno Valley submitted its 6th Cycle Draft Housing element to HCD on February 19, 2021. As of the date on this MSR, HCD had not completed the review of the City's Housing Element.[117] During the 5th Cycle, the City submitted Annual Progress Reports between 2014 and 2019, but failed to submit an Annual Progress Report in 2013.[118]

The City's 5th Cycle housing needs are presented in Figure 87.

Figure 87: 5th Cycle Housing Element Summary - Moreno Valley

Moreno Valley 5th Cycle Housing Needs	Very Low Income	Low Income	Moderate Income	Above Moderate Income
RHNA Allocation	1,500	993	1,112	2,564
Permitted Units	0	0	457	1,354
Allocation Surplus/(Shortage)	(1,500)	(993)	(655)	(1,210)

Source: HCD Annual Progress Report Permit Summary, October 6, 2020

The City permitted 457 moderate income housing units and 1,354 above-moderate income units during the 5th Cycle. The City did not permit any very low- or low-income housing units during the 5th Cycle, and the City fell short of meeting its RHNA allocation in all income categories. With a

[117] Source: California Department of Housing and Community Development, "Housing Element Implementation Status Tracker" updated June 28, 2019
[118] Source: California Department of Housing and Community Development, "Annual Progress Report Permit Summary," dated October 6, 2020.

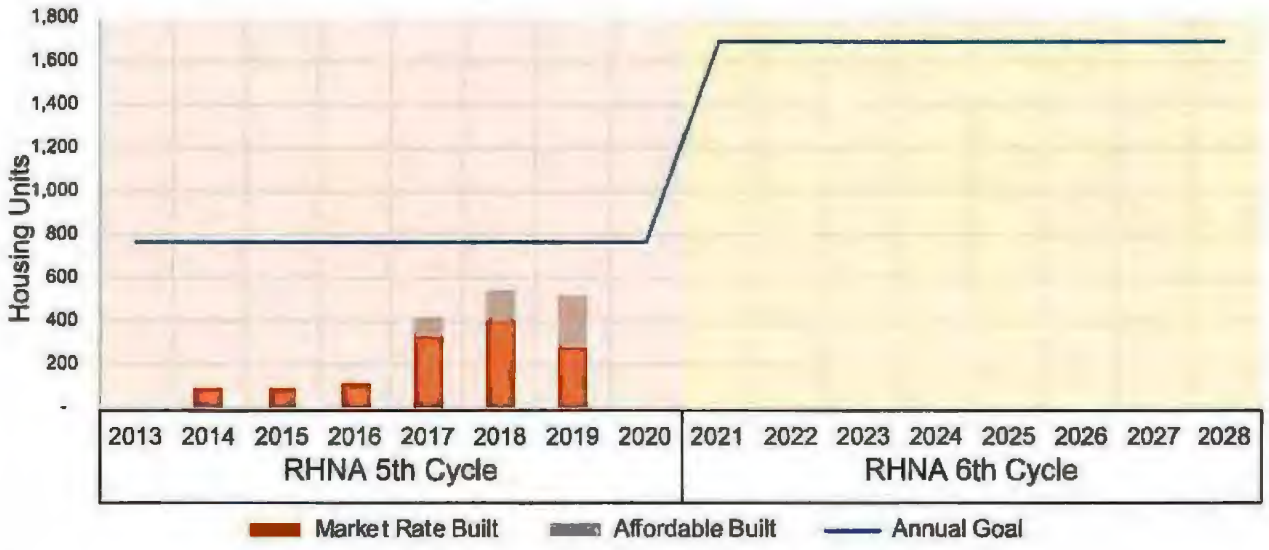
Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

shortage of 4,358 housing units, the City is not expected to meet its RHNA allocation in any income category.

The City's RHNA allocation increases by about 120 percent, or 7,427 units, to a total of 13,596 housing units for the 6th Cycle. In order to accomplish this, the City will need to permit 1,700 units every year during the eight (8) year cycle.

The City's 5th and 6th Cycle production goals and unit production is presented in Figure 88.

Figure 88: 5th and 6th Cycle RHNA Allocation and Production - Moreno Valley



Moreno Valley is one of 289 California jurisdictions that have not made sufficient progress toward either moderate-income RHNA unit production or failed to submit the latest (2019) Annual Progress Report. As a result, the City is subject to streamlined ministerial approval process for proposed housing developments with at least 10 percent affordable units. The streamlined ministerial approval process was introduced as part of Senate Bill 35 (Chapter 366, Statutes of 2017) in 2017.[119]

[119] Source: California Department of Housing and Community Development, "SB 35 Statewide Determination Summary"

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

FISCAL HEALTH

The City of Moreno Valley's fiscal health evaluation, including audit findings, revenue sources, expenditure categories, long-term obligations, reserves, and California State Auditor assessment is presented in the sections that follow. The City's net position is presented as annual revenues less expenditures for fiscal years 2016-17 through 2018-19 in Figure 89. The City recorded surpluses in each year between 2016-17 and 2018-19.

Figure 89: Net Position - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Total General Tax Revenues	$80,283,944	$95,664,565	$101,563,227
Other Tax Revenues	252,636	757,763	3,562
Other Revenues	43,623,150	58,823,573	69,378,685
Total Revenues	**124,159,730**	**155,245,901**	**170,945,474**
Total Operating Expenditures	102,604,217	132,608,840	132,343,618
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**117,944,142**	**150,346,468**	**148,856,763**
Net Position	**$6,215,588**	**$4,899,433**	**$22,088,711**

Operating Revenues

As illustrated in Figure 90, the City had total revenues that ranged from $124.2 million in 2016-17 to $170.9 million in 2018-19. Figure 90 outlines the City's revenue sources between 2016-17 and 2018-19.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Figure 90: Operating Revenue History - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Revenues			
Property Tax	$13,549,337	$19,681,234	$20,781,717
Sales Tax	22,613,602	22,899,957	25,928,638
Transient Occupancy Tax	1,852,584	2,344,159	2,433,358
Property Tax in-lieu of VLF	17,430,250	18,406,258	19,577,636
Franchise Tax	5,673,109	6,300,486	6,585,791
Business License Tax	2,832,064	2,956,966	3,046,854
Property Transfer Tax	719,514	767,591	833,082
Utility User Tax	15,613,484	15,629,102	15,483,806
Other Tax Revenues	-	6,678,812	6,892,345
Total General Tax Revenues	**80,283,944**	**95,664,565**	**101,563,227**
Transportation Tax	252,636	757,763	3,562
Parking Tax	-	-	-
Voter-Approved Taxes	-	-	-
Functional Tax Revenues	-	-	-
Total Tax Revenues	**80,536,580**	**96,422,328**	**101,566,789**
Charges for Services	6,582,057	11,502,017	10,078,587
Special Benefit Assessments	686,981	800,544	732,737
Use of Money	3,040,329	6,153,214	9,724,869
Fines and Forfeitures	195,970	727,887	800,140
Licenses and Permits	2,950,348	3,234,411	3,638,808
Intergovernmental	14,637,872	18,156,624	21,488,264
Other Taxes in-Lieu	-	-	-
Miscellaneous Revenues	15,529,593	18,248,876	22,915,280
Total Revenues	**$124,159,730**	**$155,245,901**	**$170,945,474**

Source: California State Controller's Office

The City's general tax revenues, which were $101.6 million in 2018-19, account for 59.4 percent of the City's total revenues. The City has a diverse revenue base, with sales tax ($25.9 million), property tax ($20.8 million), property tax in-lieu of VLF (19.6 million), and utility user tax ($15.5 million) representing the largest revenue sources and collectively representing 80.5 percent of total general tax revenues.

When compared to all other Riverside County and California cities, the City's tax revenues are proportionate, except for utility user tax, which not all communities have adopted. Although sales tax is the City's largest general tax revenue source, accounting for 25.5 percent of the City's general tax revenues, it is proportionally lower than the average sales tax revenue for all

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Riverside County cities (39.9 percent), and more aligned with the average sales tax revenue for all California cities (24.7 percent). Because sales tax can be susceptible to economic shifts, such as the results of the COVID-19 pandemic, it may be advantageous for the City to rely less on sales tax revenues.

The City's general tax revenues are compared to all Riverside County and California cities in Figure 91.

Figure 91: General Tax Revenue Comparison - Moreno Valley

Aside from tax revenues, City's largest non-tax revenue sources are miscellaneous revenues ($22.9 million) and intergovernmental revenues ($21.5 million). The City's major revenue sources are described in greater detail in the sections that follow.

Sales Tax

Sales tax revenues are the City's single-largest tax revenue, accounting for 25.5 percent of general tax revenues or $25.9 million in 2018-19. Sales tax revenues are derived from one percent of gross receipts from the sale of tangible personal property sold in Moreno Valley. Sales tax revenues increased by 7.1 percent annually between 2016-17 and 2018-19.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Property Tax and Property Tax in-lieu of Motor Vehicle License Fees

Property tax and property tax in-lieu of VLF were the City's second and third largest tax revenues in 2018-19, accounting for 20.5 and 19.3 percent of general tax revenues respectively.

In 2018-19, the City collected almost $20.8 million in property tax. Property tax is assessed on land, improvements, and personal property, which amounted to about $15.6 billion in 2018-19. Approximately $4.1 billion in assessed value was derived from land value and $11.8 billion from improvements.[120] The City's property tax collections were approximately 15.6 percent of all property tax collected in Moreno Valley, which is one of the highest tax rates for a city in Riverside County.

The City's property tax revenues increased from about $13.5 million in 2016-17 to $20.8 million in 2018-19, 23.8 percent annual growth rate. While property assessed valuations can only increase by a maximum of 2 percent annually, property tax revenues can grow at a much faster pace as a result of new development adding new taxable value to the tax roll.

The City of Moreno Valley and County of Riverside have a mutually adopted Master Property Tax Exchange Agreement in place, which was adopted in 1985.[121]

Property tax in-lieu of VLF accounted for 19.3 percent of the City's general tax revenue in 2018-19, equivalent to $19.6 million. Property tax in-lieu of VLF replaced vehicle license fees as a revenue source for cities in 2004, and increases based on assessed valuation growth in the jurisdiction.

Utility User Tax

A fourth significant revenue source for the City is utility user tax revenues. The City assesses utility user taxes on telephone use at a rate of 5.75 percent, inclusive of intrastate residential and

[120] Source: California City Finance, "Assessed Valuation of Property by City"
[121] Source: Riverside LAFCO

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

commercial calls, interstate residential and commercial calls, international residential and commercial calls, and all wireless residential and commercial calls. Additionally, the City taxes business and residential electricity, business and residential natural gas, business and residential cable television, business and residential water, and business and residential sewer fees at a rate of 6 percent.[122] In 2018-19, utility user tax revenues amounted to $15.5 million, or about 15.2 percent of general tax revenues. Over the three (3) year period from 2016-17 to 2018-19, the City's utility user tax revenues were relatively flat, decreasing by a little more than $100,000 over that period.

Miscellaneous Revenues

The City's largest non-tax revenue source is classified as miscellaneous revenues. Miscellaneous revenues amounted to $22.9 million in 2018-19, or about 13.4 percent of all revenues. For the City, the primary sources of miscellaneous revenues includes development impact fees ($9.6 million in 2018-19), contributions from nongovernmental sources ($1.9 million), and other unclassified miscellaneous revenues ($11.3 million). According to City staff, the City is expected to begin preparation of a development impact fee study in 2021.

Intergovernmental Revenues

Intergovernmental revenues are collected from County, State, and Federal sources and amounted to $21.5 million in 2018-19 for the City. The City's intergovernmental revenues are comprised of gas tax revenues ($8.0 million), community development block grants ($1.8 million) and several other State ($8.0 million) and Federal ($3.3 million) government sources. Intergovernmental revenues increased from about $14.6 million in 2016-17 to $21.5 million in 2018-19, a 21.2 percent annual growth rate.

[122] Source: California City Finance, "Utility User Tax by City" updated in February 2021

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Operating Expenditures

The City's operating expenditures ranged from $117.9 to $150.3 million between 2016-17 and 2018-19. The City's annual operating expenditures, categorized by use, are presented in Figure 92.

Figure 92: Operating Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Operating Expenditures			
Salaries and Wages	$31,577,627	$45,685,127	$21,936,258
Employee Benefits	9,756,381	12,363,241	13,222,377
Materials and Supplies	4,749,004	2,974,431	3,675,063
Contract Services	56,321,004	57,844,737	83,315,931
Other Operating Expenditures	200,201	13,741,304	10,193,989
Total Operating Expenditures	**102,604,217**	**132,608,840**	**132,343,618**
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

Because the City contracts with the County of Riverside for law enforcement and fire protection services, it is not surprising that the City's largest expenditure category is contract services, amounting to $83.3 million in 2018-19. Between 2016-17 and 2018-19, the City's contract services expenditures increased by 21.6 percent annually – over the same time frame all other operating expenditures increased by just 2.9 percent. In 2018-19, the City's contract service expenditures amounted to 56 percent of total expenditures.

The City's largest current expenditure category is associated with public safety, amounting to $63.3 million in 2018-19. Public safety expenditures grew at just 3.5 percent annually between 2016-17 and 2018-19 while total current expenditures increased by 12.3 percent annually. Most of the growth occurred in transportation, community development, and culture and leisure expenditure categories. The City's current expenditures by function between 2016-17 and 2018-19 are presented in Figure 93.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Figure 93: Current Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Government	$17,323,318	$18,982,549	$19,669,398
Public Safety	59,152,472	63,992,529	63,305,321
Transportation	10,976,980	18,441,708	19,286,980
Community Development	6,843,958	12,717,384	11,128,467
Health	-	-	-
Culture and Leisure	8,307,489	18,474,670	18,953,452
Public Utilities	-	-	-
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Current Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

In most contract cities around Riverside County, the public safety costs are rapidly increasing at unsustainable paces – that is not the case in Moreno Valley. The fastest growing expenditure categories for the City were culture and leisure (51 percent annual increase between 2016-17), transportation (32.6 percent annual growth), and community development (\$27.5 percent annual growth). These three (3) categories represented \$23.2 million in expenditure increases between 2016-17 and 2018-19.

Culture and leisure expenditures are entirely associated with parks and recreation costs (almost \$19.0 million in 2018-19) while transportation expenditures include costs for streets, highways and storm drains (\$18.1 million), and trees and landscaping (\$1.1 million). Community development expenditures are associated with planning (\$3.2 million), construction and engineering regulation (\$373,000), and other unclassified community development expenditures (\$7.5 million). Some of these costs are recovered via charges for services, and according to City staff, the City's fees are balanced and consistent with all fee studies. City staff also indicated that the City planned to prepare a new development impact fee study in 2021 because the previous fee study was prepared nine (9) years ago.

Reserve Fund Balance

The City has several reserve fund policies. The City's cash flow reserve aims to preserve 17 to 35 percent of General Fund expenditures. The Emergency fund policy requires 12 percent of

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

General Fund expenditures and the Rainy Day Reserve policy requires an additional 10 percent of General Fund expenditures to be retained. The City's 2020-21 budget indicates that the City will retain $39.9 million in reserves and is in compliance with the City's reserve policies.[123]

Pension and OPEB Obligations

The City of Moreno Valley's pension and OPEB obligations are outlined in Figure 94.

Figure 94: Pension and OPEB Obligations - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Net Pension Liability/(Surplus)	$72,410,028	$68,092,267	$72,896,273
Total OPEB Liability/(Surplus)	7,099,335	6,453,487	8,175,011
Total Benefit Liability/(Surplus)	$79,509,363	$74,545,754	$81,071,284

Source: 2017-18, 2018-19 and 2019-20 ACFR

Qualifying employees are eligible to participate in the City's Miscellaneous Pension Plan. The City does not have public safety employees and therefore does not offer a Safety Plan. The City also provides OPEB policies, which are defined benefit postemployment healthcare plans for retired persons, and benefits are extended to surviving spouses. As illustrated in Figure 94, the City has about $81.1 million in combined pension and OPEB liabilities.

The City established an irrevocable trust fund in June 2009 to begin prefunding the City's unfunded OPEB liability.

The City's pension indicators, which include the City's employer contribution compared to the actuarially determined contribution, the City's total covered payroll, and the contribution rate as a percent of covered payroll, are presented in Figure 95.

[123] Source: City of Moreno Valley, 2019-20 Budget

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Figure 95: Pension Indicators - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Actuarially Determined Contribution	$6,385,610	$7,094,031	$7,972,616
Employer Contribution	6,385,610	7,094,031	7,972,616
Covered Payroll	$20,860,026	$21,783,847	$24,175,227
Employer Contribution Rate	30.6%	32.6%	33.0%

Source: 2017-18, 2018-19 and 2019-20 ACFR

The City made employer contributions equivalent to the actuarially determined contribution between 2016-17 and 2019-20. During this time frame, the City's covered payroll increased at an annual rate of about 7.7 percent. The City's employer contribution rate, which ranged from 30.6 to 33.0 percent between 2016-17 and 2019-20, is about average for the County of Riverside, which ranged from 26 to 32 percent over the same period.

Annual Audit Findings

RSG reviewed the City's Annual Audits from 2017-18 through 2019-20. The Annual Audits did not present any findings and the auditor stated that the financial statements present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City. Additionally, the City's Annual Audits between 2017-18 and 2019-20 were awarded Certificates of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association.

California State Auditor Fiscal Health Evaluation

The City of Moreno Valley ranked 281 out of 471 jurisdictions and received an overall risk rating of low. The City is considered higher risk than 190 peer cities in California, or about 40 percent of cities. The City received low risk ratings on six (6) indicators, including liquidity, general fund reserves, pension obligations, pension costs, future pension costs, and OPEB obligations. Two

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

(2) indicators were given moderate risk ratings, including debt burden and revenue trends. Two (2) indicators scored high risk ratings, including pension funding and OPEB funding.[124]

MSR DETERMINATIONS

Requisite CKH determinations for the City of Moreno Valley are presented by topic below:

1. **Population, Growth, and Housing**

   Moreno Valley grew at a slower rate over the last decade, when compared to the County and most other incorporated jurisdictions in the Western Riverside Region. The Moreno Valley population is expected to grow at a rate that is slightly lower than the County-wide growth rate over the next 15 to 25 years. The City did not build sufficient housing units to meet its 5th Cycle RHNA allocation of 6,169 units, falling short by 4,358 units, and the City's 6th Cycle RHNA allocation increased by 120 percent to a total of 13,596 housing units.

2. **Disadvantaged Unincorporated Communities in SOI**

   The City's SOI does not contain any DUCs.

3. **Present and Planned Capacity of Facilities**

   Many of the City's deficiencies identified in the 2006 MSR did not resurface during RSG's research, data collection, and city interview stages.

4. **Financial Ability to Provide Services**

   The City's general tax revenue sources have increased to more than $101.6 million in 2018-19. The City has identified issues with its pension and OPEB liabilities and began to take

[124] Source: California State Auditor, Financial Data for Fiscal Year 2019-20

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

corrective action as early as 2008 with the introduction of an irrevocable trust fund. The City has maintained healthy reserve funds.

5. **Opportunities for Shared Facilities**

   No opportunities for shared facilities were identified.

6. **Accountability for Community Service Needs**

   The City Council is elected according to district boundaries. The City's plethora of boards, committees, and commissions indicates that the City residents are engaged with City government. The City is active across at least five (5) social media platforms and maintains an email list. The City also operates a television channel and has a dedicated media team.

7. **Any Other Matter Related to Effective or Efficient Service Delivery as Required by Commission Policy.**

   The City did not identify any other matters related to effective or efficient service delivery as required by Commission Policy.

SOI RECOMMENDATIONS

RSG's recommendations related to the Moreno Valley SOI are presented by topic below. RSG is not recommending any changes to Moreno Valley's SOI.

1. **Present and Planned Land Uses**

   Large portions of Moreno Valley's SOI overlaps difficult-to-develop and protected land and are unlikely to be developed in the foreseeable future. The southern and southeastern portions of the unincorporated Moreno Valley SOI present the best opportunities for future growth and development.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

2. **Present and Probable Need for Public Facility and Services**

   City staff indicated that the Moreno Valley SOI has adequate public facilities and services.

3. **Present Capacity of Public Facilities**

   City staff indicated that public facilities in the Moreno Valley SOI are sufficient to meet the community's needs.

4. **Social or Economic Communities of Interest**

   The City did not identify any social or economic communities of interest in the Moreno Valley SOI.

5. **Disadvantaged Unincorporated Community Present and Planned Need for Facilities and Services**

   The Moreno Valley SOI does not contain any DUCs.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: George Hague <gbhague@gmail.com>
Sent: Tuesday, November 8, 2022 2:17 PM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center (MVTC)— Larger than City's Mall in June article--& proposed unhealthy sports park

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Good afternoon City Council members, **November 8, 2022**

When the Moreno Valley Trade Center (MVTC) couldn't protect the families in the neighborhood and the environment, they decided a park could be offered to influence you to get at least three votes, but they fail to explain the park will be next to a city designated diesel truck route with all its harmful pollution impacting the health of children using the sports park — active use of the sports park will result in children breathing in deeply the health impacting diesel pollution. The 40 million sq ft World Logistics Center warehouse project has just begun moving forward with its project and will be using Redlands Blvd for some of its 13,000 daily diesel truck trips as will the MVTC, Sketchers and others.
Sincerely,
George Hague

Moreno Valley warehouse — larger than city's mall — is back for consideration

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Silvia Flores, seen Friday, June 17, 2022, with children, Jillian Flores,13, at right, and Slater Flores, 11, opposes a 1.26-million-square-foot warehouse in her neighborhood. They are standing in the middle of Mozart Way, with Encelia Avenue behind them, where the proposed warehouse could rise. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

By **DAVID DOWNEY** | ddowney@scng.com | The Press-Enterprise
PUBLISHED: June 19, 2022 at 7:00 a.m. | UPDATED: June 19, 2022 at 7:01 a.m.

A plan to build a warehouse larger than the Moreno Valley Mall across the street from houses on half-acre lots is returning to the Moreno Valley City Council.
The council is set to decide Tuesday, June 21, whether to greenlight a 1.26-million-square-foot logistics project called the Moreno Valley Trade Center, on 80 acres south of the 60 Freeway.

The developer, Dallas-based Hillwood Investment Properties, has said the warehouse would stand 48 feet tall.
The project's final environmental impact reportstates that the building could reach 100 feet if occupied by a fulfillment center filling the orders of online shoppers.

Previous

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

-

-

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

- Next

1 of 2

A 1.26-million-square-foot warehouse is proposed to be built on this land, seen Friday, June 17, 2022, across the street from Moreno Valley homes. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

In advance of Tuesday's meeting, letters from people on both sides of the issue have poured in to the city.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Walter Fus, saying he has been a Moreno Valley resident since 1977 and is a retired Air Force pilot, wrote Saturday, June 11, that approving the project "would be the most egregious decision this council could ever make."

Cristina Rivera, in a Wednesday, June 15, email, urged approval in praising an amenity the developer promised, if allowed to build. The project "will bring a new desperately needed sports park to the City of Moreno Valley," Rivera wrote.

Union carpenters submitted letters of support, saying the project would create construction jobs.

A decision was postponed

In October, the Moreno Valley Planning Commission rejected the project on a 4-0 vote, with one commissioner not participating due to a potential conflict of interest, concluding the center was incompatible with a neighborhood to the south. Hillwood Investment Properties appealed the decision to the council, which discussed the project in December but postponed a decision.
Now the project is back.

City planners are recommending the council approve it, by certifying the environmental impact report, approving a general plan amendment, changing the zone and making a determination that the project won't "result in a net loss in residential capacity."
In changing the property designation, the city would eliminate the potential for 145 single-family houses to be built, according to an environmental report.

Project proponents are seeking approval at a time when some Inland Empire communities are pushing back against warehouses.
For example, the Redlands City Council recently enacted a moratorium on industrial projects on the city's west side. Earlier, Jurupa Valley limited warehouses to its Mira Loma and Agua Mansa areas, and adopted rules for other types of businesses that generate heavy truck traffic. And Pomona is considering a 45-day moratorium on new warehouses.
At the same time, online shopping is soaring and continues to drive a regional explosion in the logistics industry.
The Moreno Valley Trade Center arrived on the dais of the Planning Commission in fall, a few months after the city completed an overhaul of its general plan, a guide for future growth.

That document designated the 80-acre project site, west of Redlands Boulevard between Eucalyptus and Encelia avenues and mostly empty except for an 8.5-acre plant nursery, as a place for houses on half-acre lots.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Hillwood is seeking permission to deviate from that new growth guide. In part because of that, Planning Commission member Jeff Sims called on the council to kill the project in a Saturday, June 11, letter.

“Why have an approved General Plan and not honor it?” Sims wrote.

Two other projects in pipeline

There are two other warehouse projects in the early stages.

One is called Edgemont Commerce Center, a proposed 142,345-square-foot warehouse distribution building on approximately 7 acres southwest of Bay Avenue and Day Street.
The other is Heacock Commerce Center, a pair of industrial buildings totaling 874,000 square feet on 46 acres southeast of Gentian Avenue and Heacock Street.
City spokesperson Matthew Bramlett said in email Thursday that environmental reports are being prepared for both projects and it’s not known when they will be completed.

Like Moreno Valley Trade Center, the Heacock project can’t be built unless the city lets the developer deviate from the general plan. Warehouses are allowed at the Edgemont site, though a zone change is required to build one bigger than 50,000 square feet.

George Hague, conservation chair for the Moreno Valley Group of the Sierra Club, said those projects are also in the wrong place because they are near homes and schools.

The California Air Resources Board submitted letters to the city warning that each project has the potential to “expose nearby communities to elevated levels of air pollution.”

In separate letters, Robert Krieger, chief of the California Air Resources Board’s Risk Reduction Branch, wrote that both projects are “in census tracts that score within the top 1 percent of State’s most impacted from air pollution from an environmental hazard and socioeconomic standpoint.”

Truck traffic, air pollution concerns

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

As for the Moreno Valley Trade Center, since the December hearing Hillwood has made changes.

The warehouse footprint has been reduced by 65,582 square feet to approximately 1,263,271 square feet, a city report states. A 35-foot-tall earthen berm, landscaped with trees and shrubs is to be built along Encelia Avenue. Truck access is to be limited to Eucalyptus Avenue. The number of loading docks is to be reduced by four, to 117, on the south side of the building, and by seven, to 97, on the north side.

Also, Hillwood has offered to build an 18-acre park at Redlands Boulevard and Ironwood Avenue that features two lighted soccer fields, a lighted baseball field, a playground, concession stand and exercise equipment.

Manuel and Arminda Del Alto, who live near Encelia Avenue, said improvements such as the berm don't alleviate concerns. They moved to Moreno Valley 14 years ago from Ontario because they wanted to escape the warehouses going up there.

"My main concern is what the trucks and cars will put in the air," said Manuel Del Alto, who has had a lung transplant.

Arminda Del Alto said they enjoy hearing birds and coyotes in the distance, and worry they will disappear.

Silvia Flores, who lives nearby with her husband, Joe, and two children ages 13 and 11, said she worries about pollution and traffic.

"It's going to be terrible to have all these trucks," Flores said.

The environmental report states that the logistics center would generate about 2,320 vehicle trips per day, including 1,436 by passenger vehicles and 885 by trucks. Under the fulfillment center scenario, the total would be 6,607 daily vehicle trips, including 5,750 passenger vehicles and 857 trucks.

Hillwood made several proposals earlier to soften the project's impact on the neighborhood, including setting aside:

- $125,000 to establish an account to purchase of at least five electric-powered heavy trucks that drive the 60 Freeway corridor through Moreno Valley
- $64,000 to create an account for defraying up to 90% of neighbors' costs of purchasing and installing noise-insulation equipment, with a per-home limit of $8,000. Eleven homes on Galino Court, Essen Lane, Gershwin Way, Mozart Way, Strauss Lane and Shubert Street would be eligible for the payments.
- $40,000 to establish an account to pay up to 90% of a homeowner's cost of purchasing and installing air filtration systems, with a per-home limit of $5,000. The same 11 households would be eligible for such payments.

RELATED LINKS

- Massive Moreno Valley warehouse project still alive
- Has Moreno Valley reached its warehouse saturation point?
- Pushback against warehouses in the Inland Empire gains momentum
- $47 million settlement reached in World Logistics Center lawsuit

---

- Moreno Valley council says yes — again — to World Logistics Center

Despite the offers, Sims, the planning commissioner, said, "you can't negate the smog, the traffic and the noise."

The warehouse building also would eclipse neighbors' views, he said.

On most days, they can see foothills.

"On a clear day you can see the mountains looking up toward the Big Bear area," Sims said. If the project goes in, he said, "all we will be able to see is a big wall looking to the north."

IF YOU GO

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

What: The Moreno Valley City Council will meet and consider a 1.26-million-square-foot logistics project called the Moreno Valley Trade Center.
When: 6 p.m. Tuesday, June 21
Where: City Hall Council Chamber, 14177 Frederick St., Moreno Valley
Staff writer Monserrat Solis contributed to this report.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Charles Smith
To: Sean P. Kelleher
Subject: Proposed Moreno Valley Trade Center
Date: Tuesday, November 8, 2022 7:05:48 PM
Attachments: Warehouse Proposal MV Trade Center SK.docx

Warning: External Email – Watch for Email Red Flags!

Attached is a copy of a letter sent to the Mayor, 4 Councilpersons, and the City Clerk

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Dear Mr Kelleher:

A copy of a letter sent to the Mayor, 4 Councilpersons, and the City Clerk

As I have been crossing the 215 on Cactus, Alessandro, and Eucalyptus over passes on weekdays I have noticed that the traffic along the northbound 215 is slowed to a crawl as numerous cargo trucks are on the road. They are being passed by many truck cabs that have just dropped off their trailers or are on their way to pick up trailers. We simply cannot have thousands more trucks clogging up the 60 and 215 freeways. Gridlock will inevitably result. The idling of thousands of trucks will pour fumes into the air that will result in sickness and deaths. This is not what we should want for us or our children.

Here is an article reported in the May 26th Los Angeles Times:

A decades-old plan to widen one of America's busiest cargo corridors was scrapped Thursday, as transportation officials acknowledged they must find a new way to lessen traffic without adding lanes.

The Los Angeles County Metropolitan Transportation Authority unanimously voted to end the $6-billion expansion plans for most of the 710 Freeway, **where port-bound trucks idle in traffic-choked lanes and nearby communities struggle with high rates of asthma and poor health.**

And the Times reported on May 6, 2022

Black and Latino residents make up an estimated 83% of the 1.2 million people who live along the 710 corridor. **They endure some of the worst air quality in the country. The area accounts for about**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

20% of all particulate emissions in Southern California, according to Metro…

Moreno Valley MUST stop the proliferation of warehouses in our city! We must also stop the proposed Pilot Travel Center/Truck Stop. The interchange at Redlands Blvd cannot handle that traffic! And, proposed housing tracts in that area will negatively impacted. As the elected by the people it is up to you, the City Council, to stop this **NOW!**

Charles Smith

22670 Temco St.

Moreno Valley, CA 92553

A resident since 1983

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: movalca
To: Sean P. Kelleher
Cc: City Clerk
Subject: Moreno Valley Trade Center
Date: Wednesday, November 9, 2022 6:52:38 AM

Warning: External Email – Watch for Email Red Flags!

This is a poorly planned usage of this area. The detriment to the Community and the City as a whole will not improve the quality of life for this area. Instead it will cause massive pollution and associated medical problems for the area. It will cause increased traffic in an area that is not equipped to handle the extra truck and other vehicles. Please encourage the City Council to vote against this project. Please attach this to the Public Record.

--
Stan King

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Bianca Blua
To: Dr. Yxstian A. Gutierrez
Cc: City Clerk; Gabriel Diaz; Sean P. Kelleher
Subject: Moreno Valley Trade Center
Date: Wednesday, November 9, 2022 3:35:30 PM

Warning: External Email – Watch for Email Red Flags!

Dear Mayor,
I am writing to you about the Moreno Valley Trade Center project. I thought the planning commission voted against this project, but now I see it is on the City Council agenda? This project is not in alignment with the general plan (the area is zoned for homes) and it will create more traffic and air pollution. If you care about the residents of Moreno Valley, and not your pocketbook, please vote against this project.

With Gratitude,
Bianca Blua, Ph.D.
11580 Steeplechase Dr, Moreno Valley, CA 92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Laszo Valladolid
To: City Manager"s Office_DG; City Clerk"s Dept_DG
Subject: I Support Moreno Valley Trade Center
Date: Saturday, November 12, 2022 5:57:38 PM

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Sent from my email to iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Mario Del Angel
To: City Manager"s Office_DG; City Clerk"s Dept_DG
Subject: I Support Moreno Valley Trade Center
Date: Thursday, November 10, 2022 6:50:04 PM

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

My name is Mario Del Angel and I live in Rancho Belago on the Promontory Park community near Moreno Beach Drive and Cactus Ave.
I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Thank you,
Mario Del Angel

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Dany Ramos
To: City Manager"s Office_DG; City Clerk"s Dept_DG
Cc: Alonso Gomez
Subject: I Support Moreno Valley Trade Center
Date: Thursday, November 10, 2022 6:53:33 PM

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Martha Del Angel
To: City Manager"s Office_DG; City Clerk"s Dept_DG
Subject: I Support Moreno Valley Trade Center
Date: Thursday, November 10, 2022 6:55:02 PM

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Thank you.
Martha Del Angel

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Marisabel Melendez-Valladolid
To: City Manager"s Office_DG; City Clerk"s Dept_DG
Subject: I Support Moreno Valley Trade Center
Date: Thursday, November 10, 2022 7:59:10 PM

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Enviado desde mi iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Debbie Walsh
To: Gabriel Diaz; City Clerk; George Hague; Sean P. Kelleher; Julia Descoteaux
Subject: Moreno Valley Trade Center Project GPA PEN19-0191
Date: Thursday, November 10, 2022 9:22:52 AM
Attachments: MVtradeCenterletterNov9_2.pdf

Warning: External Email – Watch for Email Red Flags!

Gabriel Diaz,

Please find the attached letter regarding the Moreno Valley Trade Center Project GPA PEN19-0191.

Please submit into the Administrative and Public Record.

Thanks.

Debbie Walsh

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 9, 2022

Rural Association of Mead Valley (RAMV)
PO Box 2244
Perris, CA 92572

Moreno Valley City Council
Attn: Gabriel Diaz, Associate Planner
Community Development Department
14177 Frederick Street
Moreno Valley, CA 92553

RE: Moreno Valley Trade Center Project including Final Environmental Impact Report (SCH No 20210039038), GPA PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193, and Tentative parcel Map 37836.

Honorable Council Members:

The Redlands Amazon Warehouse along the I-215 Freeway is a Prime example of why this warehouse SHOULD NOT BE APPROVED.

A massive fire broke out Friday morning, June 5 at a distribution center on West Lugonia Avenue in Redlands which shuttered part of the 10 Freeway. (Photo courtesy of the Redlands Fire Department)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

This recently built state of the art Redlands warehouse burned to the ground just two years ago. It was 600,000 square feet along the I-10 freeway. Operated by Amazon, this recently built warehouse caught on fire and burned to the ground quickly. Those driving along the freeway could feel the heat from the fire.

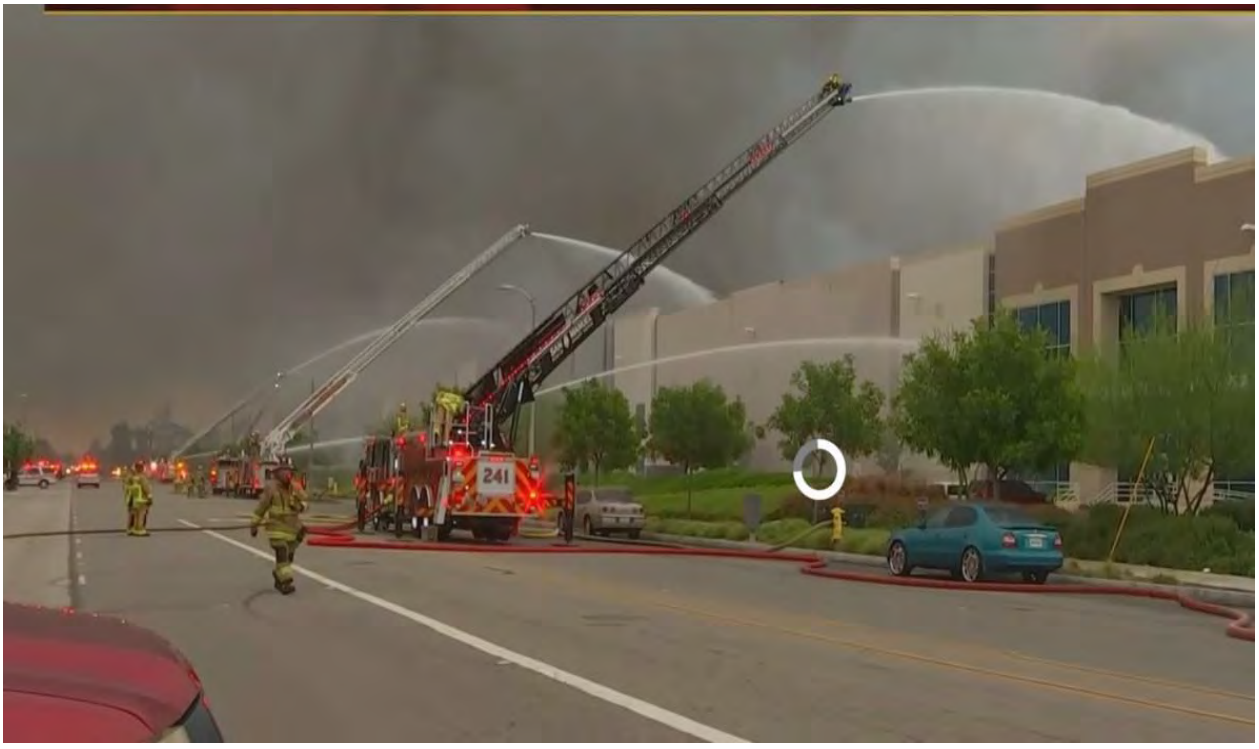
The Redlands warehouse was 600,000 sq. ft. and 45 feet in height. The Proposed warehouse is 1,328,853 sq. ft. in size and at least 100 feet in height.

Even though this recently constructed warehouse had the state of the art sprinkler system, it went up in flames quickly and was completely destroyed according to the Redlands Daily news.

There were about 100 people working inside when the fire was reported about 5:30 a.m., and they all got out safely, city spokesperson Carl Baker said.

"It went up really fast, and the whole building was involved," Baker said. He described the damage as a total loss. The damage was estimated at "hundreds of millions of dollars," Baker said.

One focus of the investigation will be why what Baker called "a state-of-the-art" sprinkler system failed to limit the fire's spread. "Obviously, the suppression system didn't work as intended," he said.
Redlands Daily News Article.



Redlands City does not have the equipment necessary to fight this type of warehouse. A large number of agencies from other cities and counties were brought in with ladder trucks to fight this Redlands City fire.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Will the fire trucks be tall enough to put water on top of a building 100 feet or more? That is much taller than the 45-foot warehouse that burned down in Redlands. Will there be enough ladder trucks to fight this type of fire with a building 100 feet tall or more? Will there be enough of a setback from the residential neighborhoods if the walls over 100 feet tall collapse during a fire? How does the City of Moreno Valley plan to fight a fire if one were to break out if this massive warehouse were to be built?

This warehouse is planned next to a residential neighborhood and homes. Yes, these warehouses catch on fire. The trucks will use residential streets even though agreements state they will not use residential streets.

A large warehouse in the City of Perris recently had a large explosion from a large 1,000 gallon propane tank. This warehouse is directly next to residential homes similar to the proposed Project. The blast from the explosion could be seen and heard from miles away. No propane tanks should be installed and used on warehouse sites. All forklifts, Goats, and equipment should be electric powered.

The Rural Association of Mead Valley is opposed to the Moreno Valley Trade Center Project for this and the following reasons. This Project is for a proposed 1,328,853 square foot Industrial warehouse building up to 100 feet in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map (PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

2) The Project requires a General Plan Amendment and Change of Zone from Single Family Residential land with animal keeping, a rural land use, to Industrial Zoning. This massive Industrial Project is not compatible with the surrounding residential neighborhood. The General Plan that was just updated includes the Project site as Residential housing. No indications were made during the General Plan update that this area would be changed in the near future from residential to industrial land uses. The MVTC is inconsistent with the recently approved 2040 General Plan which points out that industrial is incompatible with residential zoned areas. Policy LCC.3-2 directs the City to use "development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another". The 2040 General Plan approved in June also requires the city to screen and buffer

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

nonresidential projects to protect adjacent residential property when necessary to mitigate noise, glare and other adverse effects on adjacent lands.

The World Logistics Center and numerous other massive logistics warehouses are set to open nearby this Project location. This Project will add to the tens of thousands of additional truck trips approved on the already gridlocked I-60 Freeway. The unrealistic analysis of job creation assumes that there is a need for additional warehouse workers. The facts are that the current logistics and e-commerce warehouses cannot fill their positions. Where will these tens of thousands of additional workers come from? The best use of this land will be for single-family homes.

If the Project is constructed and used as an e-commerce fulfillment center the amount of vehicle trips is projected to be more than 5,000 vehicles per day. The MVTC's plan as a warehouse is to allow the southern entrance of the project to allow 1,000's of vehicles to access Encelia Street.

The project is located just 118 feet away the nearest family home. A 1,000-foot buffer is recommended by the California Air Resources Board (CARB) and Western Riverside Council of Governments (WRCOG) to protect the health of residents living across the street.

The Project is proposed to be built under speculation. The developer has the option of developing this Project as a fulfillment/e-commerce center or logistics warehouse.

The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air 2 Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings. (Page 11).

The Environmental Justice Element is now required by the State to be a part of all General Plans. The City must "minimize any potential health risks" of new development on adjacent sensitive receptors and "designated truck routes that avoid sensitive land uses" (Policies EJ.1-3 and EJ. 1-9). The City must create a substantial buffer between homes and the warehouse. Screening must be installed along the southern and western boundaries of the Project. All truck parking and docks must be located on the north side and east side of the Project away from residential neighborhoods.

The Project is located in an area the State has designates as a Disadvantage Community under SB 535.

Although the Project has a number of entrances most warehouses use just one driveway for trucks to enter and exit, thereby reducing staffing to one gate. The Project does not have sufficient room at any of the entrances to prevent trucks from backing up onto Eucalyptus Ave.

The Project must include a substantial amount of solar power, especially if used as an e-commerce business. The current power grid is not sufficient to produce enough electricity for the current

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

customers. The drain on the power grid during summer months produces frequent brown outs throughout Southern California.

The Project is located in an area with the worst smog in the nation.

This Project will increase greenhouse gas levels that are already impacting Communities in Western Riverside County. Mead Valley is also a disadvantaged community. The impacts warehouses in Moreno Valley and Perris are having negatively impacts to the entire region. The I-215 Freeway is congested for most of the day. The I-60 Freeway is congested with thousands of trucks. This backs up traffic throughout the region. Trucks are now using residential streets to avoid the congested freeways. Cajalco Road is backed up bumper to bumper during the day. Trucks are using Van Buren, Alessandro and Cajalco to get to the I-91 to get to the Ports. Our freeways cannot add tens of thousands of additional trucks and cars from any new warehouses without severe gridlock to our freeways.

RAMV is opposed to this Project that will impact the entire region. We cannot afford to turn anymore of our residential zoned areas into Industrial zoned areas. Our freeways are already at capacity, our air quality is already the worse in the nation, and our local roads are already being impacted. Please consider all of the impacts that this Project will bring to not only Moreno Valley, but also the entire region.

Sincerely,

Debbie Walsh

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: Marisabel Melendez-Valladolid <kidschefacademy@gmail.com>
Sent: Thursday, November 10, 2022 7:59 PM
To: City Manager's Office_DG; City Clerk's Dept_DG
Subject: I Support Moreno Valley Trade Center

Follow Up Flag: Follow up
Flag Status: Flagged

Warning: External Email – Watch for Email Red Flags!

Dear Moreno Valley City Council and Officials,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over a thousand more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in supporting the Moreno Valley Trade Center.

Enviado desde mi iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: louse palomarez
To: City Clerk
Date: Friday, November 11, 2022 3:20:52 PM

Warning: External Email – Watch for Email Red Flags!

Please forward to council members.

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Louise Palomarez

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Kimberly Gil
To: City Clerk
Subject: Moreno Valley Trade Center
Date: Friday, November 11, 2022 8:36:34 PM

Warning: External Email – Watch for Email Red Flags!

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses bring tax dollars and that helps to pay for public safety which is the resident's number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Sent from my T-Mobile 4G LTE Device

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Oscar A. Alvarez
To: City Clerk; Sean P. Kelleher
Subject: Moreno Valley Trade Center Comments
Date: Saturday, November 12, 2022 8:26:29 PM

Warning: External Email – Watch for Email Red Flags!

City Clerk and Planning Manager Sean P. Kelleher, for your consideration and distribution,

I am a resident of Moreno Valley (City) since 1990. I have three grown children and four small grandchildren, and they all live in the area. I am writing these comments on the subject matter because I am very concerned with the future of my children and grandchildren, and in particular, in their future ability to breathe healthy air and lead a healthful life in the City. I am writing as an individual (not as a member of a City Advisory Board member), and on behalf my family and myself.

California Attorney General (AG) Bonta Intervention on the Moreno Valley General Plan. During a press release dated July 1, 2022, the AG Bonta made it clear that according to CalEnviroScreen, Moreno Valley ranks among the highest in the state for ozone pollution (it also worth noting that the counties of San Bernardino and Riverside get an "F" on the American Lung Association's 2022 State of the Air report card for both high ozone days and particle pollution). Ozone exposure (smog) is associated with decreases in lung function, worsening of asthma, increases in hospital admissions, and a higher death rate. Mr. Bonta further argued in its petition (dated June 21, 2022) that the City did not fully account for and mitigate the environmental and public health consequences of its General Plan. Specifically, Moreno Valley fails to:

- Compare the General Plan's air quality impacts against a proper environmental baseline, which is typically defined as "the physical environmental conditions as they exist at the time" of project approval;
- Evaluate whether the General Plan would lead to a significant, cumulative increase in pollutants like ozone and particulate matter, which impacts whether the region can meet state and federal air quality standards; and
- Consider whether the General Plan would increase pollution near schools, hospitals, and other sensitive sites or otherwise negatively impact the surrounding communities.
- Implement enforceable measures required to mitigate the General Plan's anticipated greenhouse gas impacts.

All of these requirements have not been addressed by the City, and are still lacking in the Moreno Valley General Plan. It is important to address these matters before approving additional warehouses, as any approvals will be on "thin ice".

Continuous Approval of Warehouse Projects and their Impact
The City of Moreno Valley for the past several years continues to approve (or settle) additional warehouses in the City. For example, 1) it has approved the 40.6 million square feet World Logistic Center (settled in April 29, 2021 with $47 million in green technologies, conservation and minor air pollution mitigation measures), which is starting construction this year, and is projected to create more than **13,000 daily toxic diesel truck trips**, 2) there are several additional warehouse projects undergoing the City development review process, which may potentially add more than 20 million square-foot warehouse space and additional thousands of daily toxic diesel truck trips, 3) there may be others in the development process that have not necessarily been disclosed to the public.

Any reasonable and average individual does not need to run an environmental and/or cumulative impact studies to see that the currently approved World Logistic Center warehouse project, along with other warehouse projects being approved and planned, will potentially be adding more than **70-million of warehouses square footage space** that within a few years will convert the City into a "jungle" of trucks,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

and subject it to unprecedented pollution and noise levels.

These **thousands and thousands of daily toxic diesel truck trips** will have the end result, within less than a decade, of transforming our current barely livable air quality into an environment with unbreathable air, undrivable city streets and adjacent freeways, and with all-day noise and bright lights at night, exposing its residents to continuous 7day/24hr air, noise and light pollution. Needless to say, these projects are close enough to our schools and homes, and its cumulative and local effect will directly impact our families and all those around us - **a living hell.**

The MV Trade Center Project Being Proposed Fails to Meet Proper Analysis and Fails to Protect from Pollution Impacts Current Residents and Future Generations
As indicated in comments filed on the MV General Plan during the last four years, and as also indicated recently by the California Attorney General filing, the air pollution analysis in the General Plan is faulty, and thus, any project relying on it is defective, since it relies on incorrect data.

Mr. Bonta has stated: "Communities in Moreno Valley experience some of the highest levels of air pollution in the state. We're intervening today so that those communities do not continue to bear the brunt of poor land decisions that site warehouses outside their doors. At the California Department of Justice, we're fighting day in and day out for communities who live at the intersection of poverty and pollution" (June 21, 2022).

The Moreno Valley Trade Center project in and by itself, **does not have a proper environmental baseline reflecting actual physical conditions** in the proposed project area, it **does not have a true impact evaluation of the cumulative increase of pollutants** (e.g. air, noise, water runoff, greenhouse gases, light and glare pollution) on the surrounding communities and whether they meet state and federal standards, and the project **fails to calculate the true effects of pollution** in homes, schools, hospitals and other sensitive communities in the project surrounding areas. The MVTC also needs to describe how the project is going to **mitigate the cumulative impact of pollutants** on those living within the surrounding areas of the project census tract.

We should not be adding and approving indiscriminately warehouses without fully addressing proper baselines, true evaluation of cumulative impacts and effects on the City environment and people. Doing otherwise is failing our City residents and future generations.

Warehouse Moratorium Consideration - A Necessary Step to Take Stock of Where We Are in Terms of Pollution Impacts, and to Assure a Healthy MV Community in the Present and for the Future
Many cities have considered and explored a warehouse moratorium while studying the accumulated pollution impact of warehousing on their communities. Others have outright rejected warehouse projects due to concerns of traffic, pollution, and lowering property values. A brief overview of these activities (not intended to provide a whole history) is given below:

- In June 2019, the Pomona City Council supported drafting a set of strategies to address the cumulative impacts of warehouses in their city. The strategies recommended would include an update on City zoning laws to better regulate industrial zones and long-term impacts of these projects. This will allow city officials to better address the negative impacts that these warehouse projects may have on their community, while also giving due consideration to environmental justice. The moratorium would prohibit citywide speculative industrial development and new warehouse development, except for certain expansions. The city felt it this was necessary because oftentimes projects are built near communities of color, and this forces many neighbors to breathe diesel exhaust from warehouse activities, particularly in "disadvantaged-communities".
- The cities of Chino, Colton, Riverside and Jurupa Valley have also enacted similar moratoriums.
- The City of Redlands enacted a temporary ban on non-housing development in a portion of their City on June 7, and was considering a ban for their entire City.
- In August 2022, the City of Norco approved a a 45-day moratorium on warehousing to give city officials

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

time to find the potential and cumulative impact of warehousing on public safety, health and welfare. This would allow time to develop proper zoning, regulations and standards for future logistics sites.
- In October 2022, the Beamont City Council rejected several warehouse projects due to concerns with polluting truck traffic, pollution and ruining property values.

It is time for the Moreno Valley Mayor and Council to **consider a warehouse moratorium** to take stock of where we are in terms of polluting levels, properly model and project where we will be in terms of pollution impacts if all approved warehouse projects were to be built, and take the necessary steps now to mitigate these polluting impacts.

The State-of-Affairs of the Climate Crisis According to World Leaders and Its Implications to the City of Moreno Valley
On November 7, 2022, the Chief of the United Nations put it very clearly and bluntly during the International Climate Conference: We as the world are on "**a highway to climate hell with our foot on the accelerator**", and warned world leaders to "**cooperate or perish**". Former U.S. Vice President Al Gore stated: "**Choose life over death ... It is not time for moral cowardice".**

What this means to our Moreno Valley Mayor and Councilmembers, is to remove their foot from the accelerator of implementing polluting warehouses in our city, and to choose to bring into the city products and services that **will save our lives**, such as electric vehicles manufacturing, medicine related products, planting extensively trees along the major streets in our city, and other climate crisis mitigation related activities. Our city leaders need to have the courage and perform the hard work to lead the City into a leadership position in the Inland Empire where mitigation of the climate crisis is a priority, and a way of life.

Doing otherwise is failing our current city residents and future generations, and **effectively choosing death over life**.

Conclusions

- Concerns from the California Attorney General need to be addressed address before approving additional warehouses, as any approvals will be on "thin ice".
- Warehouse projects already approved or in the pipeline will add **thousands and thousands of daily toxic diesel truck trips** within less than a decade, transforming our current barely livable air quality into an environment with unbreathable air, undrivable city streets and adjacent freeways, and with all-day noise and bright lights at night, exposing its residents to continuous 7day/24hr air, noise and light pollution. **A true living hell**.
- The MV Trade Center **should not be approved as it does not have a proper environmental baseline reflecting actual physical conditions** in the proposed project area, it **does not have a true impact evaluation of the cumulative increase of pollutants** (e.g. air, noise, water runoff, greenhouse gases, light and glare pollution) on the surrounding communities, and the project **fails to calculate the true effects of pollution** in homes, schools, hospitals and other sensitive communities. The MVTC also needs to describe how the project is going to **mitigate the cumulative impact of pollutants** on those living within the surrounding areas of the project census tract. We should not be adding and approving indiscriminately warehouses without fully addressing proper baselines, true evaluation of cumulative impact and effects on the City environment and people. Doing otherwise is failing our City residents and future generations.
- It is time for the Moreno Valley Mayor and Council to **consider a warehouse moratorium** to take stock of where we are in terms of polluting levels, properly model and project where we will be in terms of pollution impacts if all approved warehouse projects were to be built, and take the necessary steps now to mitigate these polluting impact.
- It is time for the Moreno Valley Mayor and Council to **remove their foot from the accelerator of implementing polluting warehouses** in our city, and to choose to bring into the City products and services that **will save our lives**, such as electric vehicles manufacturing, medicine related products, planting extensively trees along the major streets in our city, and other related climate

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

crisis mitigation activities. **Doing otherwise** is failing our current city residents and future generations, and **effectively choosing death over life**.

- Oscar Alvarez, PE, MSEE, MAPh, MBA

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Jeanette Enciso
To: City Clerk
Subject: Moreno Valley trade center
Date: Sunday, November 13, 2022 2:41:13 PM

Warning: External Email – Watch for Email Red Flags!

I am a resident in Moreno Valley ,and I support the Moreno Valley trade center.
I believe it will bring more jobs for our community.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Megan Keo
To: City Clerk
Date: Sunday, November 13, 2022 4:27:45 PM

Warning: External Email – Watch for Email Red Flags!

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Pranom Keo
To: City Clerk
Date: Sunday, November 13, 2022 4:38:30 PM

Warning: External Email – Watch for Email Red Flags!

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Angelina Valdivia
To: City Clerk
Subject: Moreno Valley Trade Center
Date: Sunday, November 13, 2022 4:39:26 PM

Warning: External Email – Watch for Email Red Flags!

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Sara Branson
To: City Clerk
Subject: Support for Moreno Valley Trade Center
Date: Sunday, November 13, 2022 9:11:47 PM

Warning: External Email – Watch for Email Red Flags!

To whom it may concern,

I am writing in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.

Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.

I ask that you vote in support of the Moreno Valley Trade Center.

Best,
Sara Branson
Student, University of California, Berkeley
She/her
--
Sara Branson
Student, *University of California, Berkeley*
she/her/hers

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Eileen Avila
To: City Clerk
Subject: Moreno Valley Trade Center
Date: Monday, November 14, 2022 12:19:08 AM

Warning: External Email – Watch for Email Red Flags!

I am writing in support of the Moreno Valley Trade Center.
This project will bring the residents of Moreno Valley hundreds of good union jobs and reduce traffic by keeping people working locally. Less cars means less pollution.
Businesses being tax dollars and that helps to pay for public safety which is the residents' number one concern overall.
I ask that you vote in support of the Moreno Valley Trade Center.

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	Darric
To:	Dr. Yxstian A. Gutierrez; Ulises Cabrera; Edward A. Delgado; David Marquez; Elena Baca-Santa Cruz; Sean P. Kelleher; City Clerk
Cc:	Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; DAMON FOREMAN; Darric Williams; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jeff Sims; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; Tom and Terri Thornsley; VERONICA Ramos
Subject:	MVTC & 2nd Moreno Valley warehouse on Tues. Nov 15th City Council agenda at 6 pm = Moreno Valley Business Center (MVBC)
Date:	Monday, November 14, 2022 9:13:41 AM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

Please include these comments as part of the record for the above-mentioned public hearing. I am a resident of the Heritage Ranch community, the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021, during the applicant's appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution in our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the roundabout of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would disapprove. It is shocking to us that some of the things that people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for Moreno Valley do not live in this community. This is not a good project... If you approved this project then you will want to approve the Pilot Truck stop next... I would like to not assume that you care more about city revenue than the health and well-being of the people in your community.

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. The June 21, 2022 vote was conveniently postponed till Nov 15th right after the current elections. Again, please revisit the project's location and **visualize the magnitude**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

of a 1.3 million sq. ft. building and what it will do to our neighborhood.

The same sentiments are shared for the MVBC.

If these developers are offering $500,000 to the city to develop in areas that will cause irreparable harm to the community then there must be something that is innately wrong with the project. It does not fit in with this community and my children will pay the price for greed and power. This behavior that is being tolerated does not fit in with our progressive agenda and typifies the corporate monster that is allowed to propagate itself in retrospect to what you ran on as politicians and supposed protectors of the community.

The sad part is that we will rehash the sideshow of union workers claiming to be a part of our community that somehow we never see at our local meetings tell us how good this project is for Moreno Valley, to say nothing of how it will affect the immediate local residents. These actors are not in fact a part of our local community. They have no interest in our concerns about why this project's location and proximity to our community is a net negative.

At the end of the day, I like business and growth... Just not at the expense of my home, children, and community. This project can exist... They just need to move it into the area that was already zoned for this... Move it off Theodore...

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Linda M Castellano
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez
Cc: Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center
Date: Monday, November 14, 2022 2:37:39 PM

Warning: External Email – Watch for Email Red Flags!

I am sending you this email to implore you all to vote no on the 1.26 million sq ft Moreno Valley Trade Center! You all say you want what is best for the residents of Moreno Valley, well how could this warehouse possibly be good for us? Imagine what this huge warehouse would do to our quality of life, it could possibly shorten our lives! In the meantime, while your yes vote would be killing us, we would also have to suffer the additional truck traffic! It already takes me 30 minutes to get out of Moreno Valley!

The planning Commission voted against the MVTC so the developer is now trying to sweeten the deal by offering a sports park! And now I just learned that they are also promising the Moreno Valley Community Foundation $500,000 to sweeten the deal even more. I am not sure how many of you are on the board of MVCF but please do not let this bribe or whatever you prefer to call it influence your NO vote!

If you truly are for the people of Moreno Valley, then vote NO on the MVTC.

Sincerely,

Linda Castellano
34-year resident of Moreno Valley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: Ulises Cabrera
Cc: City Clerk; Sean P. Kelleher
Subject: Moreno Valley Trade Center hearing
Date: Monday, November 14, 2022 3:13:06 PM
Attachments: Council Member Cabrera Letter MVTC.docx

Warning: External Email – Watch for Email Red Flags!

Good Afternoon Councilman Cabrera,

Congratulations on the outcome of the election. How I hope you can bring some change to what seems to be the city's philosophy that all things warehouse are good. We need a leader that puts community residents first while focusing on appropriate and diverse development for a broader spectrum of opportunities in Moreno Valley. Besides, next door to this project site is the WLC with land available for 30 similar size warehouses.

Since the last hearing, the developer has sweetened the deal with an offer to build a park, contribute $500,000 to a city foundation and made campaign contribution. If an established local business wanted to make a contribution to the city, it would appear to be a neighborly thing to do. But as an enticement to get a project approved is just not right. Remember that Ex-Councilman Co went to jail for taking a bribe to get a land use and zoning change. Only difference here is the offer is made to the city publicly with one string attached, the project must be approved. These offers offend me and it should do so to you too. Remember, they do nothing to offset the project impacts.

The staff report implies that the developer now considers building an e-commerce distribution center and needs a 100-foot-tall building. Previously, we were told that would not be the option. This will be the largest building by cubic feet anywhere in the region and with it will be even more traffic not previously discussed publicly.

Please put forth a Condition of Approval limiting the height of this warehouse to 50 feet even if you don't what the project approved. At least this would limit the facility should others vote to approve.

There are a litany of environmental impacts this project will bring that simply cannot be mitigated or even mitigated to the fullest financially feasible. Instead, the developer is burdening the city while enticing the project's approval with financial incentives.

Attached is a letter outlining the full range issues this project fails to meet according to the MoVal 2040 General Plan. Please take a look at what the General Plan asks for and consider whether we really need another warehouse when we need housing and job diversity.

Please uphold the Planning Commissions denial of the Moreno Valley Trade Center.

Sincerely,
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 14, 2022

To: Council Members Cabrera,
City of Moreno Valley

Subject: Request to not overturn Planning Commission Denial of the Moreno Valley Trade Center

Dear Council Member Cabrera,

Having resided just south of the proposed Moreno Valley Trade Center (MVTC) and next to the World Logistics Center (WLC), for many years, it is my hope that you can understand my and all most all those on this end of town objecting to yet another warehouse near us. We ask that you agree with the Planning Commissions denial of this project. Just east of this project, the WLC has the potential to build 30 similar sized warehouses. So, why the need for one more at the cost of losing valuable residential, increasing air pollution, intensifying truck traffic, and further impacting and devaluating residential property.

You should take note that there are a broad range of reasons why this project should have be approved. Yes some are personal but may have to do with quality of life, environmental impacts, and inconsistencies with the MoVal 2040 General Plan.

Planning staff for the city should never have overlooked the following issues and standards. What follows are passages taken directly from the General Plan that defend the need to deny this project for its inconsistencies with the General Plan. ***(My comments in the following passages are those in bold italics.)***

MoVal 2040 General Plan Goals, Policies, Actions

POLICIES
LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.
LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

Growth Management
POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

(There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Its time to diversify our employment base so fewer of us have to commute to non-logistics jobs.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

(The following is the argument against any warehouse going next to residential. MVTC does not meet these criteria from the MoVal 2040 General Plan)

BUILDING AND SITE DESIGN

Building Massing and Design Building massing refers to the visual dominance of buildings, while building design refers to a building's architectural features. Building massing and design controls are crucial for ensuring appropriate, sensitive development, particularly when it is adjacent to existing residential neighborhoods. Building massing and design measures to be considered include providing for sensitive transitions between new and existing development so as to reduce impacts to existing neighborhoods, incorporating human and pedestrian-scaled design for new commercial and mixed-use development, and building design that incorporates visual quality and interest to contribute to place making.

(The MVTC proposal has the option to build a 100 foot tall warehouse which not appears very likely and this further violates it original intent and further impacts the visual character of the community.)

Goal LCC-3: Build a distinctive sense of place and pride in Moreno Valley.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors. ***(Warehouses don't belong adjacent to residential.)***

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another. ***(This is what the City fails to do all the time. In fact, little exists in the development standards to assure this can be done.)***

Planning for a Pleasant, Healthy Noise Environment

Integrating noise reduction into the planning and design of projects can help address the potential for increased noise as development occurs and ensure a healthy and pleasant noise environment for residents and visitors alike. Proactively reducing noise at its source, separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy.

In a vibrant city, some noise is inevitable, and making sure that noise-sensitive land uses such as schools and housing are separated from noisy uses is important to ensuring a pleasant, healthy noise environment for all. Land uses have different levels of compatibility relative to noise, and the State of California mandates that general plans include noise level compatibility standards for the development of land as a function of a range of noise exposure values

The City has adopted Good Neighbor Guidelines for warehouse and distribution facilities into the zoning code that specify requirements to minimize the potential for impacts from these facilities on surrounding areas, including limiting noise generating activities near residential areas.

(The MVTC is a massive warehouse that will be operating 24/7. Although expected noise levels will not physically harm the nearby residents, the constant background noise will disturb the peace and tranquility they would have expected to enjoy when the project site developed with homes as designated in MoVal 2040.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.
POLICIES
N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.
N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.
N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.
ACTIONS N.2-A: Continue to maintain performance standards in the Municipal Code to ensure that noise generated by proposed projects is compatible with surrounding land uses.
N.2-B: Update the Municipal Code to establish controls on outdoor noise in public places, such as outdoor dining terraces in commercial mixed use areas, public plazas, or parks. Controls may include limits on noise levels or hours of operation.

AIR QUALITY
Pollution Control Statewide, 35 local air pollution control districts regulate emissions from businesses and stationary facilities, ranging from oil refineries to auto body shops and dry cleaners. Moreno Valley is located within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Basin is designated as in "nonattainment" for select State air quality standards, which means that air pollutant emissions exceed acceptable levels for the region, indicating poor air quality.

EJ.1-C: Consider establishing a fee to be paid by new development to assist in the funding of local projects that contribute to the enhancement of air quality, particularly in DACs.
EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

Circulation
POLICIES
C.3-1: Strive to maintain Level of Service (LOS) "C" on roadway links, wherever possible, and LOS "D" in the vicinity of SR 60 and high employment centers. Strive to maintain LOS "D" at intersections during peak hours.
C.3-3: Where new developments would increase traffic flows beyond the LOS C (or LOS D, where applicable), require appropriate and feasible improvement measures as a condition of approval. Such measures may include extra right-of-way and improvements to accommodate additional left-turn and right-turn lanes at intersections, or other improvements.
C.3-4: Require development projects to complete traffic impact studies that conduct vehicle miles traveled analysis and level of service assessment as appropriate per traffic impact study guidelines.
(With the surplus of logistics job in Moreno Valley employees will be traveling here from greater distances which is not addressed in the traffic impact study.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

C.3-8: Ensure that new development pays a fair share of costs to provide local and regional transportation improvements and to mitigate cumulative traffic deficiencies and impacts.
(Moreno Valley has adopted the lowest Development Impact Fees for traffic mitigation in the entire region as noted in the last DIF Update report. This would seem unreasonable considering the city's push to be a logistics hub and point of dispersement for e-commerce.)

(Please note that even the city's Municipal Code states that there should be transitional uses separating Warehousing from Residential. It does not matter the title of District designation for a particular piece of property as much as what uses are proposed creating conflicts adjacent uses.)

Moreno Valley
Municipal Code Development Standards

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

Everyone living in Moreno Valley depends on the City Council to look out for them. The denied Moreno Valley Trade Center warehouse proposal would seems warranted for a number of reasons express by the Planning Commission, local residents, and the facts outlined in this letter. It is unsettling to think that those people living the neighborhood south of this warehouse will be looking at a 100 foot tall building wall running the entire length of the neighborhood when a project of this type should never have been proposed here to being with.

Hope you give my thoughts sincere consideration and look out for the quality of life the Moreno Valley community and those residents that will be directly impacted by this warehouse and those traveling on Redlands Boulevard. **This project needs to be denied** and left to be developed as a residential area.

Sincerely
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: Moreno Valley Mayor; Dr. Yxstian A. Gutierrez
Cc: Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center hearing
Date: Monday, November 14, 2022 3:13:11 PM
Attachments: Mayor Gutierrez Letter MVTC.docx

Warning: External Email – Watch for Email Red Flags!

Mayor Gutierrez,

Times are changing in Moreno Valley and hopefully you understand the sentiments of those near the site of the Moreno Valley Trade Center. They spoke up and the Planning Commission made the right decision to deny this project. As Councilman DelGado stated; "this is a good project but in the wrong location." Most realize that just across the street the WLC project has land capable of hosting 30 similar warehouses. Therefore, this area should be maintained for housing.

Attached is my full letter outlining the shortcoming of this project that have merit and should be considered. Please take a look at it and vote to uphold the Planning Commissions denial.

Sincerely,
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 14, 2022

To: Mayor Gutierrez,
City of Moreno Valley

Subject: Request to not overturn Planning Commission Denial of the Moreno Valley Trade Center

Dear Council Member Mayor Gutierrez,

Having resided just south of the proposed Moreno Valley Trade Center (MVTC) and next to the World Logistics Center (WLC), for many years, it is my hope that you can understand my and all most all those on this end of town objecting to yet another warehouse near us. We ask that you agree with the Planning Commissions denial of this project. Just east of this project, the WLC has the potential to build 30 similar sized warehouses. So, why the need for one more at the cost of losing valuable residential, increasing air pollution, intensifying truck traffic, and further impacting and devaluating residential property.

You should take note that there are a broad range of reasons why this project should have be approved. Yes some are personal but may have to do with quality of life, environmental impacts, and inconsistencies with the MoVal 2040 General Plan.

Planning staff for the city should never have overlooked the following issues and standards. What follows are passages taken directly from the General Plan that defend the need to deny this project for its inconsistencies with the General Plan. ***(My comments in the following passages are those in bold italics.)***

MoVal 2040 General Plan Goals, Policies, Actions

POLICIES
LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.
LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

Growth Management
POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

(There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Its time to diversify our employment base so fewer of us have to commute to non-logistics jobs.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

(The following is the argument against any warehouse going next to residential. MVTC does not meet these criteria from the MoVal 2040 General Plan)

BUILDING AND SITE DESIGN

Building Massing and Design Building massing refers to the visual dominance of buildings, while building design refers to a building's architectural features. Building massing and design controls are crucial for ensuring appropriate, sensitive development, particularly when it is adjacent to existing residential neighborhoods. Building massing and design measures to be considered include providing for sensitive transitions between new and existing development so as to reduce impacts to existing neighborhoods, incorporating human and pedestrian-scaled design for new commercial and mixed-use development, and building design that incorporates visual quality and interest to contribute to place making.

(The MVTC proposal has the option to build a 100 foot tall warehouse which not appears very likely and this further violates it original intent and further impacts the visual character of the community.)

Goal LCC-3: Build a distinctive sense of place and pride in Moreno Valley.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors. ***(Warehouses don't belong adjacent to residential.)***

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another. ***(This is what the City fails to do all the time. In fact, little exists in the development standards to assure this can be done.)***

Planning for a Pleasant, Healthy Noise Environment

Integrating noise reduction into the planning and design of projects can help address the potential for increased noise as development occurs and ensure a healthy and pleasant noise environment for residents and visitors alike. Proactively reducing noise at its source, separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy.

In a vibrant city, some noise is inevitable, and making sure that noise-sensitive land uses such as schools and housing are separated from noisy uses is important to ensuring a pleasant, healthy noise environment for all. Land uses have different levels of compatibility relative to noise, and the State of California mandates that general plans include noise level compatibility standards for the development of land as a function of a range of noise exposure values

The City has adopted Good Neighbor Guidelines for warehouse and distribution facilities into the zoning code that specify requirements to minimize the potential for impacts from these facilities on surrounding areas, including limiting noise generating activities near residential areas.

(The MVTC is a massive warehouse that will be operating 24/7. Although expected noise levels will not physically harm the nearby residents, the constant background noise will disturb the peace and tranquility they would have expected to enjoy when the project site developed with homes as designated in MoVal 2040.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.
POLICIES
N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.
N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.
N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.
ACTIONS N.2-A: Continue to maintain performance standards in the Municipal Code to ensure that noise generated by proposed projects is compatible with surrounding land uses.
N.2-B: Update the Municipal Code to establish controls on outdoor noise in public places, such as outdoor dining terraces in commercial mixed use areas, public plazas, or parks. Controls may include limits on noise levels or hours of operation.

AIR QUALITY
Pollution Control Statewide, 35 local air pollution control districts regulate emissions from businesses and stationary facilities, ranging from oil refineries to auto body shops and dry cleaners. Moreno Valley is located within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Basin is designated as in "nonattainment" for select State air quality standards, which means that air pollutant emissions exceed acceptable levels for the region, indicating poor air quality.

EJ.1-C: Consider establishing a fee to be paid by new development to assist in the funding of local projects that contribute to the enhancement of air quality, particularly in DACs.
EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

Circulation
POLICIES
C.3-1: Strive to maintain Level of Service (LOS) "C" on roadway links, wherever possible, and LOS "D" in the vicinity of SR 60 and high employment centers. Strive to maintain LOS "D" at intersections during peak hours.
C.3-3: Where new developments would increase traffic flows beyond the LOS C (or LOS D, where applicable), require appropriate and feasible improvement measures as a condition of approval. Such measures may include extra right-of-way and improvements to accommodate additional left-turn and right-turn lanes at intersections, or other improvements.
C.3-4: Require development projects to complete traffic impact studies that conduct vehicle miles traveled analysis and level of service assessment as appropriate per traffic impact study guidelines.
(With the surplus of logistics job in Moreno Valley employees will be traveling here from greater distances which is not addressed in the traffic impact study.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

C.3-8: Ensure that new development pays a fair share of costs to provide local and regional transportation improvements and to mitigate cumulative traffic deficiencies and impacts.
(Moreno Valley has adopted the lowest Development Impact Fees for traffic mitigation in the entire region as noted in the last DIF Update report. This would seem unreasonable considering the city's push to be a logistics hub and point of dispersement for e-commerce.)

(Please note that even the city's Municipal Code states that there should be transitional uses separating Warehousing from Residential. It does not matter the title of District designation for a particular piece of property as much as what uses are proposed creating conflicts adjacent uses.)

Moreno Valley
Municipal Code Development Standards

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

Everyone living in Moreno Valley depends on the City Council to look out for them. The denied Moreno Valley Trade Center warehouse proposal would seems warranted for a number of reasons express by the Planning Commission, local residents, and the facts outlined in this letter. It is unsettling to think that those people living the neighborhood south of this warehouse will be looking at a 100 foot tall building wall running the entire length of the neighborhood when a project of this type should never have been proposed here to being with.

Hope you give my thoughts sincere consideration and look out for the quality of life the Moreno Valley community and those residents that will be directly impacted by this warehouse and those traveling on Redlands Boulevard. **This project needs to be denied** and left to be developed as a residential area.

Sincerely
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: Edward A. Delgado
Cc: City Clerk; Sean P. Kelleher
Subject: Morino Valley Trade Center hearing
Date: Monday, November 14, 2022 3:13:26 PM
Attachments: Council Member DelGado Letter MVTC.docx

Warning: External Email – Watch for Email Red Flags!

Good Afternoon Councilman DelGado,

Seems it is time to consider the Trade Center project again. Months ago, you appeared ready to agree with the Planning Commission's vote to deny the project. Recall you saying this was a good project is the wrong location. You are right. Next door, to the east, is the WLC with land available for 30 similar size warehouses. Since then, the developer has sweetened the deal with an offer to build a park. contribute $500,000 to enhance the city and campaign donations. If an established local business wanted to make a contribution to the city, it would appear to be a neighborly thing to do. But as an enticement to get a project approved is just not right. These offers offend me and it should do so to you too.

The staff report implies that the developer now considers to build an e-commerce distribution center from a 100-foot-tall building. Previously, we were told that would not be the option. This will be the largest building by cubic feet anywhere in the region and with it will be even more traffic not previously discussed publicly.

There are a litany of environmental impacts this project will bring that simply cannot be mitigated or even mitigated to the fullest financially feasible. Instead, the developer is burdening the city while enticing the project's approval with financial donations.

Attached is a letter outlining the full range issues this project fails to meet according to the MoVal 2040 General Plan. Please take a look at what the General Plan asks for and consider whether we really need another warehouse next to an area already established to produce as many as 30 similar warehouse. We need housing and job diversity.

Please uphold the Planning Commissions denial of the Moreno Valley Trade Center.

Sincerely,
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 14, 2022

To: Council Members DelGado,
City of Moreno Valley

Subject: Request to not overturn Planning Commission Denial of the Moreno Valley Trade Center

Dear Council Member DelGado,

Having resided just south of the proposed Moreno Valley Trade Center (MVTC) and next to the World Logistics Center (WLC), for many years, it is my hope that you can understand my and all most all those on this end of town objecting to yet another warehouse near us. We ask that you agree with the Planning Commissions denial of this project. Just east of this project, the WLC has the potential to build 30 similar sized warehouses. So, why the need for one more at the cost of losing valuable residential, increasing air pollution, intensifying truck traffic, and further impacting and devaluating residential property.

You should take note that there are a broad range of reasons why this project should have be approved. Yes some are personal but may have to do with quality of life, environmental impacts, and inconsistencies with the MoVal 2040 General Plan.

Planning staff for the city should never have overlooked the following issues and standards. What follows are passages taken directly from the General Plan that defend the need to deny this project for its inconsistencies with the General Plan. ***(My comments in the following passages are those in bold italics.)***

MoVal 2040 General Plan Goals, Policies, Actions

POLICIES
LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.
LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

Growth Management
POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

(There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Its time to diversify our employment base so fewer of us have to commute to non-logistics jobs.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

(The following is the argument against any warehouse going next to residential. MVTC does not meet these criteria from the MoVal 2040 General Plan)

BUILDING AND SITE DESIGN

Building Massing and Design Building massing refers to the visual dominance of buildings, while building design refers to a building's architectural features. Building massing and design controls are crucial for ensuring appropriate, sensitive development, particularly when it is adjacent to existing residential neighborhoods. Building massing and design measures to be considered include providing for sensitive transitions between new and existing development so as to reduce impacts to existing neighborhoods, incorporating human and pedestrian-scaled design for new commercial and mixed-use development, and building design that incorporates visual quality and interest to contribute to place making.

(The MVTC proposal has the option to build a 100 foot tall warehouse which not appears very likely and this further violates it original intent and further impacts the visual character of the community.)

Goal LCC-3: Build a distinctive sense of place and pride in Moreno Valley.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors. ***(Warehouses don't belong adjacent to residential.)***

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another. ***(This is what the City fails to do all the time. In fact, little exists in the development standards to assure this can be done.)***

Planning for a Pleasant, Healthy Noise Environment

Integrating noise reduction into the planning and design of projects can help address the potential for increased noise as development occurs and ensure a healthy and pleasant noise environment for residents and visitors alike. Proactively reducing noise at its source, separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy.

In a vibrant city, some noise is inevitable, and making sure that noise-sensitive land uses such as schools and housing are separated from noisy uses is important to ensuring a pleasant, healthy noise environment for all. Land uses have different levels of compatibility relative to noise, and the State of California mandates that general plans include noise level compatibility standards for the development of land as a function of a range of noise exposure values

The City has adopted Good Neighbor Guidelines for warehouse and distribution facilities into the zoning code that specify requirements to minimize the potential for impacts from these facilities on surrounding areas, including limiting noise generating activities near residential areas.

(The MVTC is a massive warehouse that will be operating 24/7. Although expected noise levels will not physically harm the nearby residents, the constant background noise will disturb the peace and tranquility they would have expected to enjoy when the project site developed with homes as designated in MoVal 2040.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.
POLICIES
N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.
N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.
N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.
ACTIONS N.2-A: Continue to maintain performance standards in the Municipal Code to ensure that noise generated by proposed projects is compatible with surrounding land uses.
N.2-B: Update the Municipal Code to establish controls on outdoor noise in public places, such as outdoor dining terraces in commercial mixed use areas, public plazas, or parks. Controls may include limits on noise levels or hours of operation.

AIR QUALITY
Pollution Control Statewide, 35 local air pollution control districts regulate emissions from businesses and stationary facilities, ranging from oil refineries to auto body shops and dry cleaners. Moreno Valley is located within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Basin is designated as in "nonattainment" for select State air quality standards, which means that air pollutant emissions exceed acceptable levels for the region, indicating poor air quality.

EJ.1-C: Consider establishing a fee to be paid by new development to assist in the funding of local projects that contribute to the enhancement of air quality, particularly in DACs.
EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

Circulation
POLICIES
C.3-1: Strive to maintain Level of Service (LOS) "C" on roadway links, wherever possible, and LOS "D" in the vicinity of SR 60 and high employment centers. Strive to maintain LOS "D" at intersections during peak hours.
C.3-3: Where new developments would increase traffic flows beyond the LOS C (or LOS D, where applicable), require appropriate and feasible improvement measures as a condition of approval. Such measures may include extra right-of-way and improvements to accommodate additional left-turn and right-turn lanes at intersections, or other improvements.
C.3-4: Require development projects to complete traffic impact studies that conduct vehicle miles traveled analysis and level of service assessment as appropriate per traffic impact study guidelines.
(With the surplus of logistics job in Moreno Valley employees will be traveling here from greater distances which is not addressed in the traffic impact study.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

C.3-8: Ensure that new development pays a fair share of costs to provide local and regional transportation improvements and to mitigate cumulative traffic deficiencies and impacts.
(Moreno Valley has adopted the lowest Development Impact Fees for traffic mitigation in the entire region as noted in the last DIF Update report. This would seem unreasonable considering the city's push to be a logistics hub and point of dispersement for e-commerce.)

(Please note that even the city's Municipal Code states that there should be transitional uses separating Warehousing from Residential. It does not matter the title of District designation for a particular piece of property as much as what uses are proposed creating conflicts adjacent uses.)

Moreno Valley
Municipal Code Development Standards

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

Everyone living in Moreno Valley depends on the City Council to look out for them. The denied Moreno Valley Trade Center warehouse proposal would seems warranted for a number of reasons express by the Planning Commission, local residents, and the facts outlined in this letter. It is unsettling to think that those people living the neighborhood south of this warehouse will be looking at a 100 foot tall building wall running the entire length of the neighborhood when a project of this type should never have been proposed here to being with.

Hope you give my thoughts sincere consideration and look out for the quality of life the Moreno Valley community and those residents that will be directly impacted by this warehouse and those traveling on Redlands Boulevard. **This project needs to be denied** and left to be developed as a residential area.

Sincerely
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: David Marquez; David Marquez
Cc: City Clerk; Sean P. Kelleher
Subject: Morino Valley Trade Center hearing
Date: Monday, November 14, 2022 3:13:43 PM
Attachments: Council Member Marquez Letter MVTC.docx

Warning: External Email – Watch for Email Red Flags!

Good Afternoon Councilman Marquez,

Seems it is time to consider the Trade Center project again. You have honored your constituents on the east end and we know you will agree with the Planning Commission's vote to deny the project. However, since you last considered this appeal, the developer has put out golden carrots offering to build a sports park, contribute $500,000 to a community foundation and made campaign contributions. I view these offers and a means of bribing the elected official to approve the project. If an established local business wanted to make a contribution to the city, it would appear to be a neighborly thing to do. Remind everyone that Ex-Councilman Co went to jail for taking a bribe to get a land use and zoning change. Only difference here is the offer is made to the city publicly with strings attached. No project, no enhancements or funding. These offers offend me and it should do so to you too.

The staff report implies that the developer now considers building an e-commerce distribution center from a 100-foot-tall building. Previously, we were told that would not be the option. This will be the largest building by cubic feet anywhere in the region and with it will be even more traffic not previously discussed publicly.

Please put forth a Condition of Approval limiting the height of this warehouse to 50 feet even if you don't what the project approved. At least this would limit the facility should other vote to approve.

Attached is a letter outlining the full range issues this project fails to meet according to the MoVal 2040 General Plan. Please take a look at what the General Plan asks for and consider whether we really need another warehouse next to an area already established to produce as many as 30 similar warehouse. We need housing and job diversity.

Please uphold the Planning Commissions denial of the Moreno Valley Trade Center.

Sincerely,
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

November 14, 2022

To: Council Members Marquez,
City of Moreno Valley

Subject: Request to not overturn Planning Commission Denial of the Moreno Valley Trade Center

Dear Council Member Marquez,

Having resided just south of the proposed Moreno Valley Trade Center (MVTC) and next to the World Logistics Center (WLC), for many years, it is my hope that you can understand my and all most all those on this end of town objecting to yet another warehouse near us. We ask that you agree with the Planning Commissions denial of this project. Just east of this project, the WLC has the potential to build 30 similar sized warehouses. So, why the need for one more at the cost of losing valuable residential, increasing air pollution, intensifying truck traffic, and further impacting and devaluating residential property.

You should take note that there are a broad range of reasons why this project should have be approved. Yes some are personal but may have to do with quality of life, environmental impacts, and inconsistencies with the MoVal 2040 General Plan.

Planning staff for the city should never have overlooked the following issues and standards. What follows are passages taken directly from the General Plan that defend the need to deny this project for its inconsistencies with the General Plan. ***(My comments in the following passages are those in bold italics.)***

MoVal 2040 General Plan Goals, Policies, Actions

POLICIES
LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.
LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

Growth Management
POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

(There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Its time to diversify our employment base so fewer of us have to commute to non-logistics jobs.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

(The following is the argument against any warehouse going next to residential. MVTC does not meet these criteria from the MoVal 2040 General Plan)

BUILDING AND SITE DESIGN

Building Massing and Design Building massing refers to the visual dominance of buildings, while building design refers to a building's architectural features. Building massing and design controls are crucial for ensuring appropriate, sensitive development, particularly when it is adjacent to existing residential neighborhoods. Building massing and design measures to be considered include providing for sensitive transitions between new and existing development so as to reduce impacts to existing neighborhoods, incorporating human and pedestrian-scaled design for new commercial and mixed-use development, and building design that incorporates visual quality and interest to contribute to place making.

(The MVTC proposal has the option to build a 100 foot tall warehouse which not appears very likely and this further violates it original intent and further impacts the visual character of the community.)

Goal LCC-3: Build a distinctive sense of place and pride in Moreno Valley.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors. ***(Warehouses don't belong adjacent to residential.)***

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another. ***(This is what the City fails to do all the time. In fact, little exists in the development standards to assure this can be done.)***

Planning for a Pleasant, Healthy Noise Environment

Integrating noise reduction into the planning and design of projects can help address the potential for increased noise as development occurs and ensure a healthy and pleasant noise environment for residents and visitors alike. Proactively reducing noise at its source, separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy.

In a vibrant city, some noise is inevitable, and making sure that noise-sensitive land uses such as schools and housing are separated from noisy uses is important to ensuring a pleasant, healthy noise environment for all. Land uses have different levels of compatibility relative to noise, and the State of California mandates that general plans include noise level compatibility standards for the development of land as a function of a range of noise exposure values

The City has adopted Good Neighbor Guidelines for warehouse and distribution facilities into the zoning code that specify requirements to minimize the potential for impacts from these facilities on surrounding areas, including limiting noise generating activities near residential areas.

(The MVTC is a massive warehouse that will be operating 24/7. Although expected noise levels will not physically harm the nearby residents, the constant background noise will disturb the peace and tranquility they would have expected to enjoy when the project site developed with homes as designated in MoVal 2040.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.
POLICIES
N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.
N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.
N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.
ACTIONS N.2-A: Continue to maintain performance standards in the Municipal Code to ensure that noise generated by proposed projects is compatible with surrounding land uses.
N.2-B: Update the Municipal Code to establish controls on outdoor noise in public places, such as outdoor dining terraces in commercial mixed use areas, public plazas, or parks. Controls may include limits on noise levels or hours of operation.

AIR QUALITY
Pollution Control Statewide, 35 local air pollution control districts regulate emissions from businesses and stationary facilities, ranging from oil refineries to auto body shops and dry cleaners. Moreno Valley is located within the South Coast Air Basin, which is under the jurisdiction of the South Coast Air Quality Management District (SCAQMD). The Basin is designated as in "nonattainment" for select State air quality standards, which means that air pollutant emissions exceed acceptable levels for the region, indicating poor air quality.

EJ.1-C: Consider establishing a fee to be paid by new development to assist in the funding of local projects that contribute to the enhancement of air quality, particularly in DACs.
EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

Circulation
POLICIES
C.3-1: Strive to maintain Level of Service (LOS) "C" on roadway links, wherever possible, and LOS "D" in the vicinity of SR 60 and high employment centers. Strive to maintain LOS "D" at intersections during peak hours.
C.3-3: Where new developments would increase traffic flows beyond the LOS C (or LOS D, where applicable), require appropriate and feasible improvement measures as a condition of approval. Such measures may include extra right-of-way and improvements to accommodate additional left-turn and right-turn lanes at intersections, or other improvements.
C.3-4: Require development projects to complete traffic impact studies that conduct vehicle miles traveled analysis and level of service assessment as appropriate per traffic impact study guidelines.
(With the surplus of logistics job in Moreno Valley employees will be traveling here from greater distances which is not addressed in the traffic impact study.)

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

C.3-8: Ensure that new development pays a fair share of costs to provide local and regional transportation improvements and to mitigate cumulative traffic deficiencies and impacts.
(Moreno Valley has adopted the lowest Development Impact Fees for traffic mitigation in the entire region as noted in the last DIF Update report. This would seem unreasonable considering the city's push to be a logistics hub and point of dispersement for e-commerce.)

(Please note that even the city's Municipal Code states that there should be transitional uses separating Warehousing from Residential. It does not matter the title of District designation for a particular piece of property as much as what uses are proposed creating conflicts adjacent uses.)

Moreno Valley
Municipal Code Development Standards

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

Everyone living in Moreno Valley depends on the City Council to look out for them. The denied Moreno Valley Trade Center warehouse proposal would seems warranted for a number of reasons express by the Planning Commission, local residents, and the facts outlined in this letter. It is unsettling to think that those people living the neighborhood south of this warehouse will be looking at a 100 foot tall building wall running the entire length of the neighborhood when a project of this type should never have been proposed here to being with.

Hope you give my thoughts sincere consideration and look out for the quality of life the Moreno Valley community and those residents that will be directly impacted by this warehouse and those traveling on Redlands Boulevard. **This project needs to be denied** and left to be developed as a residential area.

Sincerely
Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Abigail A. Smith
To: Gabriel Diaz; City Clerk"s Dept_DG
Subject: Nov 15 2022 City Council Meeting - Agenda Item F1 - Public Comments
Date: Monday, November 14, 2022 5:00:49 PM
Attachments: MV Trade Center Project- Sierra Club Comments City Council- Nov 14 2022.pdf

Warning: External Email – Watch for Email Red Flags!

Dear City of Moreno Valley:

On behalf of the Sierra Club-San Gorgonio Chapter, please find a comment letter regarding the Moreno Valley Trade Center/Park Project, **Item F1** of the **November 15, 2022** City Council Meeting Agenda.

Thank you for distributing this letter and including it in your record of the proposed Project.

Sincerely,

Abigail Smith

Abigail A. Smith, Esq.
Law Office of Abigail Smith, A Professional Corporation
2305 Historic Decatur Road, Suite 100
San Diego, CA. 92106
951-808-8595

CONFIDENTIALITY NOTICE: This email may contain information that is confidential, privileged or attorney work product for the sole use of the intended recipient. Any review, reliance or distribution by other recipients without express permission is prohibited. If you are not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, please notify the sender and delete all copies.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Law Office of Abigail Smith
A Professional Corporation
2305 Historic Decatur Road, Suite 100, San Diego, CA 92106

Abigail A. Smith, Esq.
Email: abby@socalceqa.com
Telephone: (951) 808-8595
Facsimile: (951) 972-8488

VIA E-MAIL ONLY

November 14, 2022

Mr. Gabriel Diaz, Associate Planner
Community Development Department
City of Moreno Valley
14177 Frederick Street
Moreno Valley, CA 92553
GabrielD@moval.org

City of Moreno Valley City Council
Attn: Jane Halstead, City Clerk
14177 Frederick Street
Moreno Valley, CA 92553
dept_cityclerk@moval.org

Re: Public Comments—November 15, 2022 City Council Meeting, Public Hearing Agenda Item F1: Moreno Valley Trade Center/Park Project including Final Environmental Impact Report (SCH No. 2020039038), General Plan Amendment PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193, and Tentative Parcel Map 37836

Dear City of Moreno Valley City Council:

Please accept these comments on behalf of the Sierra Club-San Gorgonio Chapter regarding the proposed Moreno Valley Trade Center/Park Project ("the Project"). This Project is currently scheduled for a public hearing before the City Council **on November 15, 2022, Item F1.** This Project has been appealed by the developer following the Planning Commission's decision to deny the Project in October 2021.

The City Council should uphold the Planning Commission's denial of this Project. By a vote of 4-0, the Planning Commission voted to deny this Project because,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

> the Proposed Project's warehouse and logistics center option was 1) inconsistent with the City's General Plan; and 2) the Proposed Project's warehouse and logistics center option would result in significant and unavoidable impacts to the surrounding community. (June 2022 Staff Report p. 1452)

Indeed, this Project represents poor planning as it locates a massive warehouse complex within 118 feet of existing homes. It brings more localized impacts to your citizens who are already overburdened by the effects of industrial development. The Project is blatantly inconsistent with the City's General Plan which sets forth policies and goals to prevent this very type of incompatible development.

Moreover, the City Council should not be persuaded by the proposed "changes" to the Project's site design. These changes do little to mitigate the Project's impacts. For instance, the applicant has proposed to reduce the number of loading docks on the south side of the building by 4 docks and to reduce the building pad by 3 feet. These changes do not address the major land use and environmental impacts presented by the Project.

I. The City Should Not Approve a 1.2+ million square foot, 100-Foot Industrial Building Adjacent to Existing Single-Family Homes

Regardless of the Project's purported size reduction by approximately 65,000 square feet, the Project will construct and operate *either* a warehouse distribution/logistics use *or* a "e-commerce/fulfillment" use adjacent to existing single-family residences. The building could be up to 100 feet in height. The Staff Reports focus on the "smaller" "48 or 60 foot" building, with the Project intended as a distribution facility, but the Environmental Impact Report ("EIR") purports to evaluate, and therefore provide environmental clearance for, *either* development scenario *including the "100 foot" building option.*

The application should be denied because the Project—whether built to 100 feet or 48/60 feet—is fundamentally incompatible with surrounding uses, even with the purported site plan changes described in the Staff Report that were not evaluated through the EIR review process. The Project site is currently zoned residential; *existing single-family homes are located immediately south of the Project site* in a residential zone on the south side of Encelia Avenue. In contrast to surrounding uses, the Project proposes a massive, 1.2+ million square foot building to operate as a truck-intensive logistics or "e-commerce" center. If allowed, this building would substantially alter and degrade the quality of the existing environment. **Closest residences are located a mere 118 feet from the site**. Residents to the south of the site will be exposed to views of the 100-foot monolithic, walled building, especially as the record indicates the building will be constructed on an elevated pad. Reducing the elevation of the pad by a *few feet* (approximately 3 feet) will not eliminate the visual impacts of the proposed Project; nor is there any evidence in the record to support the recent claims that the visual impacts of the Project are eliminated as a result of the proposed changes to the Project's design. There are no aesthetic renderings or visual representations to support these claims.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

In addition to the physical changes to the environment presented by the Project, the Project's intense industrial operations conflict with surrounding uses. Under the "warehouse distribution building option", the building may have 117 loading docks on its south elevation as well as 97 docks on the north elevation. There is no justification for placement of loading docks on the south side of the building other than the applicant's desire to maximize the full site. Big-rig trucks will pass through and maneuver at the site along the south side of the building (indeed, site plans indicate a *vehicle lane* along the south side of the facility), subjecting residents to the Project's noise and air pollution.

The Project could be designed to: (1) locate dock doors on the northern elevation only, reducing the direct impacts to residents and presumably reducing the number of truck trips to/from the site; and (2) construct a building of no more than 48 or 60 feet comparable to existing warehouses in the City. Instead, **the site has been maximized with development** (horizontally in both development scenarios, and vertically in the "e-commerce building" scenario).

II. The City Does Not Need More Warehouse/Logistics Center Industrial Space

The City has approved a multitude of warehouse projects in the last fifteen years including the 40+ million square foot World Logistics Center project which is located in the immediate proximity of the Project before you. These projects include:

- March Business Center (2009) – General Plan Amendment to allow **1,484,407** square feet of industrial warehouse space on 66.9-acres.
- Master Plot Plan PA07-0035 (2010) - **409,598** square foot industrial warehouse
- West Ridge Commerce Center (2011) - **937,260** square foot warehouse distribution building
- VIP Moreno Valley Project (2012) - **1,616,133** square foot warehouse space
- First Inland Logistics Center II Project (2013) - **400,130** square feet warehouse space
- First Nandina Logistics Center Project (2014) - **1,450,000** square feet warehouse space
- Prologis Eucalyptus Industrial Park Project (2015) - **2,244,419** square feet of warehouse uses including a General Plan Amendment from residential to Light Industrial
- World Logistics Center (2015) - **40.6 million** square feet of warehouse logistics development on 3,918 acres in eastern Moreno Valley. ***The World Logistics Center Project – immediately east of Redlands Avenue - will be located almost adjacent to the proposed Project.***
- Indian Street Commerce Center Project (2016) - **446,350** square feet of warehouse space
- Moreno Valley Logistics Center (2016) - **1,736,180** total square feet of warehouse space
- Brodiaea Commerce Center (2017) - **262,398** square foot warehouse including a rezone from Business Park-Mixed Use to "Light Industrial"

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

- Moreno Valley Business Park (2021) - **220,390** square feet of warehouse logistics development including a General Plan Amendment to from commercial to light industrial
- Heacock Commerce Center (2021) – application for a **General Plan Amendment** and Change of Zone for two high cube industrial buildings totaling **873,967** square feet
- Compass Danbe Center Point (2021) – application for a **General Plan Amendment** to allow for the development of two light industrial buildings of **389,603** square feet
- Edgemont Commerce Center (2022) – application for the development of a 142,325-square foot commerce center project

There is no justification for yet more warehouse space particularly given that virtually all these projects, like the current Project, result in significant air quality impacts. The burden of these projects falls on your residents. The City should promote development that does not compromise the health and welfare of its citizens, especially vulnerable persons such as children and the elderly as well as environmental justice populations.

III. The EIR Must Be Recirculated Pursuant to CEQA and the City's Decision Not To Recirculate is Not Supported by Substantial Evidence

The Staff Report states that the applicant has apparently proposed changes to the Project's design and site plan. The changes require recirculation of the EIR pursuant to CEQA Guidelines, 15088.5.

The revised "project description" requires re-circulation of the EIR, as CEQA requires that a project's description be fixed and complete. The EIR does not accurately describe the proposed project considering the changes to the Project's design and operation. Among other changes that necessitate recirculation are the claims in the Staff Report, unsupported by technical analysis, that the new "berm" will "completely block" views of the Proposed Project from the adjacent neighborhood (June 2022 Staff Report p. 12), and that the berm will "drastically reduce" the Project's sound levels. These claims must be evaluated through the CEQA review process.

Redirecting Project trucks and vehicles to other roadways also requires recirculation of the EIR to evaluate these traffic and circulation changes. The Project is not being reduced in size in such a way that would substantially reduce its vehicle and truck traffic impacts; in fact, the reduction in building size does not prevent the Project from adding vertical space, as the EIR provides clearance for a 100-foot building (i.*e*., any size reduction could be illusory). The fact that Project vehicles and trucks are being *re-routed* to other streets and intersections does not eliminate the Project's traffic impacts; it merely shifts them to other roadways.

Major revisions to the Project's design and site plan must be evaluated through a recirculated CEQA document affording the public and others the opportunity to fully review and comment on the changes and their impacts.

Furthermore, the "changes" to the project (including the new "berm" are not adopted through the Project's CEQA mitigation program, meaning that their enforceability is not assured. CEQA requires that mitigation measures must be fully enforceable. Also, to the extent

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

the applicant has proposed purported "Community Benefits," including various payments to the City, these are not tied to any discernable plan to address the direct or indirect impacts of the Project and therefore do not represent CEQA mitigation in any form. It is unclear how funds collected by the "Moreno Valley Community Foundation" are distributed or implemented towards mitigation of impacts of industrial warehouse projects if at all.[1]

IV. The Project Is Still Inconsistent with the New 2040 General Plan Update and the City Has Failed to Make Adequate Findings of Consistency

The Project is inconsistent with the City of Moreno Valley General Plan and the City cannot make the findings that the Project is consistent with the General Plan. The generic "findings" listed in the proposed Resolution adopting the GPA are not supported by substantial evidence. The City cannot and does not support the statement that the GPA is "consistent with existing goals, objectives, policies and programs of the 2040 General Plan…" (Resolution p. 4) The Project is, in fact, inconsistent with the General Plan, with respect to the size and scale of the building as well as the proposed industrial use; and the conflicts between the Project and the General Plan result in significant and unmitigated CEQA land use impacts.

The "Vision and Guiding Principles" of the City's General Plan Update[2] include to support and create "Livable Neighborhoods" that "prioritize … community health." (General Plan p. 1-10.) This Project does not "prioritize community health" with respect to the existing neighborhood immediately south of the Project site. According to the General Plan's Land Use & Community Character Element, the purpose of the General Plan's land use designations are to "enhance[] livability and quality of life for current and future residents.." (General Plan p. 2-8.) Yet the Project seeks a GPA to change the site's land use designation from residential to industrial to allow an industrial operation that brings substantial truck traffic and noise to an existing residential area. The General Plan states that "residential neighborhoods form the basic fabric of the community. These are areas of the city characterized primarily by housing, parks, and community facilities." *Id*. The Project—an industrial facility consisting of round-the-clock operations and hundreds of truck trips per day —represents the opposite of *community-oriented* development.

With respect to the building's design, the General Plan states that **"[b]uilding massing and design controls are crucial for ensuring appropriate, sensitive development, particularly when it is adjacent to residential neighborhoods." (**General Plan p. 2-30 (emphasis added).) Among other things, the General Plan states, "[b]uilding **massing** and design measures to be considered include providing for **sensitive transitions between new and existing development so as to reduce impacts to existing neighborhoods."** *Id.* (emphasis added) The Project will cover the site with a **giant, box-style, 1.2+ million square foot**, **100-foot** (or 48/60 foot) building "adjacent to residential neighborhoods." Under any

[1] *See*, http://www.moval.org/communityfoundation/
This hyperlink and its contents, and each of the hyperlinks and their contents cited in this letter, are hereby incorporated by reference as if reproduced herein.

[2] The 2040 General Plan Update is currently under legal challenge. The Project also conflicts with the policies and goals of the 2006 General Plan.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

reasonable interpretation of the General Plan's design principles, the industrial Project is not a "sensitive development"; nor does it provide a "sensitive transition" between the site and the adjacent residential community. The Project is patently inconsistent with the principles, policies, and goals of the new General Plan with respect to land use compatibility.

General Plan Policy LCC 3.2 directs the City to "use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another." General Plan p. 2-31. Policy LCC.3-17 requires the City to "[s]creen and buffer nonresidential projects to protect adjacent residential property and other sensitive land uses when necessary to mitigate noise, glare, and other adverse effects on adjacent uses." General Plan p. 2-32. Policy N.1-2 directs the City to "[g]uide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses." General Plan p. 7-8. The Project conflicts with, and is inconsistent with, these and other General Plan policies including those of the Environmental Justice element of the General Plan.

V. The Final EIR Does not Comply with CEQA and Additional Mitigation is Required

The Project should not be approved at this time because the Final EIR does not comply with the requirements of the California Environmental Quality Act ("CEQA") and additional mitigation must be imposed before the EIR can be legally certified.

A. Aesthetic Impacts

The EIR concludes that the Project's aesthetic impacts are significant in that the Project building will "mostly or completely" block views from vantage points such as from south of the Project site. Undoubtedly, a 1.2+ million square foot building with potentially **100-foot**, solid, tilt-up concrete walls, with very little articulation or variation, will obstruct views and adversely impact visual resources. The EIR states there is no mitigation available to reduce these impacts. However, the Project could be developed with a **smaller footprint** to allow for views to be maintained, even if partially. The building could be shrunk on the west side to allow more southerly homes to retain views; or the site could be designed with smaller industrial buildings that are clustered or placed in such a way to retain some views across the site. It is not shown based on any evidence that a building of more than one-million-square feet and 100 feet in height is required for any reason, especially as no tenant is presently identified or known.

Alternatively, the Project's significant aesthetic impacts could be mitigated by developing the Project at an alternate site; this option is not explored through the EIR. The EIR's alternatives analysis states that alternative sites were not considered because an alternative site would not reduce the Project's significant air quality impacts. DEIR p. 6-3. However, given the Project's proposal to build a 100-foot building adjacent to a residential neighborhood, the EIR should study alternative sites that could more reasonably accommodate such a use. The City as the lead agency has an obligation under CEQA to conduct a good faith,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

independent analysis of the Project's environmental impacts including an examination of reasonable alternatives to the proposed Project.

The rapid growth of industrial warehouse development in the Inland Empire in the last ten years[3] [4] [5] [6] suggests there are alternative sites available within Moreno Valley and other jurisdictions. Alternative sites should be considered and evaluated as mitigation for significant aesthetic impacts. According to the 2040 General Plan, "a full 32% of the land within the City limit is vacant, including large undeveloped tracts of land at the interior of the city…" General Plan p. 2-2. The General Plan created new industrial and "office" land use designations for properties that presumably could be utilized for a project of this type such as vacant land designated "office" north of, and immediately adjacent to, State Route 60.[7]

The EIR reasons there is no mitigation available to reduce the significant impact based on the design specifications of "typical" warehouse distribution/logistics buildings. First, the site is currently zoned for residential uses. It is not a foregone conclusion that the site will be developed with an industrial use of *any* kind; in addition, there is currently no tenant for the building, so there are no design specifications that are specifically required by the user. Second, the applicant was presumably aware of the site's zoning when purchasing the property and/or undertaking development. Should an industrial building of a certain size or type be required, the applicant should explore an alternate site that can more reasonably accommodate the desired building within existing zoning designations.

In short, aesthetic impacts are not unmitigable, as it is feasible to (1) redesign the Project to preserve views and lessen the size and intensity (*i.e.*, "massing") of the building, or (2) develop the Project on a more appropriate site within the City. Furthermore, there is no evidence in the record to suggest that the new "berm" will obscure the massive building (constructed on an elevated pad) from adjacent residences.

B. Greenhouse Gas Emission Impacts

Contrary to the conclusions of the EIR, the Project results in a significant GHG and land use impacs as a result of inconsistency with policies and programs of the City's General Plan. By way of example, the Project does not demonstrate consistency with Objective 6.7 to "reduce mobile and stationary source air pollutant emissions." The Project increases these emissions, and a Statement of Overriding Considerations is proposed for significant air quality impacts. There is no evidence that the Project "reduce[s] vehicle trip lengths". (Table 3-8 GHG

[3] https://www.cbre.us/people-and-offices/corporate-offices/los-angeles/greater-los-angeles-media-center/inland-empire-warehouse-2019
[4] https://www.cbre.us/research-and-reports/US-MarketFlash-Dealmakers-E-Commerce-Logistics-Firms-Drive-Demand-for-Large-Warehouses-in-2019?utm_source=Media&utm_medium=Local%20news%20releases&utm_campaign=January%20Industrial%20flash
[5] https://www.pe.com/2020/01/30/ie-leads-the-nation-in-major-warehouse-deals-by-a-lot/
[6] https://earthjustice.org/blog/2020-april/amazon-inland-empire-workers-covid-19
[7] http://www.moval.org/city_hall/general-plan/landuse-map.pdf

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Report). The Project locates a major industrial distribution center more than fifty miles from the Ports of Long Beach and Los Angeles, thus requiring trucks to travel hundreds of miles for delivery of goods to and from the Project site. There is no evidence of consistency with policies to reduce vehicle miles traveled ("VMT"). The Project does not require local hiring, for instance. Nor is there evidence that the Project supports employment that is consistent with housing costs in the City of Moreno Valley. The Project does not support R2-T1: the Project is not a "Transit Priority Project"[8] as asserted in Table 3-9 of the Project's GHG Report. Among other things, the Project is not consistent with existing land use designations. *See, id.* There is no evidence to support the claim that a new industrial distribution center creating hundreds of truck and vehicle trips per day will reduce vehicle trip lengths. The Project thus does not support R2-T3 of Table 3-9. The conclusion of the EIR that the Project is consistent with these policies is specious and without support in the record.

C. The So-Called "Community Benefits" Described In Various Project Documents Must Be Adopted As Enforceable CEQA Mitigation Measures

The Project applicant has identified numerous "community benefit" measures via disparate letters and proposed agreements in connection with the proposed Project. These "benefits" are described in Exhibits A, B, and C to proposed Resolution 2022-___ [approving community benefits, etc.], a document included with the materials available for the Moreno Valley Trade Center Agenda Item. As many of these alleged "benefits" of the Project are, in fact, *feasible air quality, noise, or greenhouse gas emission mitigation measures* they must be adopted through the CEQA mitigation program.

CEQA requires that a lead agency adopt *all* feasible mitigation measures for significant impacts. Where measures are identified by the applicant as feasible for implementation as "community benefits" there is no justifiable reason for excluding these measures from the CEQA mitigation program to ensure their enforceability and continuity. These include, for instance, installation of a 14-foot wall; designing the building to LEED Silver certification standards; and installing a minimum of 12 onsite electric vehicle chargers. The alleged "benefits" described in the disparate Project documents - outside of the EIR and the CEQA review process - must be included in the Project's CEQA Mitigation Program. Otherwise, they are not enforceable pursuant to CEQA standards.

D. The City Must Adopt All Feasible Mitigation Measures

The City has been presented with feasible mitigation measures such as requiring the use of solar power for the Project. These measures have not been shown to be infeasible within the meaning of CEQA.

[8] https://www.sacog.org/post/transit-priority-and-sustainable-communities-projects-consistent-scs

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

E. The EIR's Alternatives Analysis is Faulty, and the City Must Adopt the Environmentally Superior Alternative

The Reduced Building Area alternative is shown to be environmentally superior to the proposed Project with respect to the Project's significant aesthetic impacts. The alternative would develop a portion of the site with a parking area and would reduce the building area by approximately 400,000 square feet. The EIR claims that a 10-14 feet tall screening wall to shield the outdoor storage area from the street would be "comparable" to the visual impacts associated with the proposed project. On the contrary, it is reasonable to assume that a 10-14 foot screening wall has a lesser visual impact than a 100-foot building that completely blocks views across the site. To ensure that alternatives are properly assessed and considered, CEQA "contains a `substantive mandate' requiring public agencies to refrain from approving projects with significant environmental effects if 'there are feasible alternatives or mitigation measures' that can substantially lessen or avoid those effects'." *County of San Diego v. Grossmont-Cuyamaca Community College Dist.* (2006) 141 Cal.App.4th 86, 98; Pub. Res. Code § 21002. A lead agency may not reject an alternative unless the agency makes findings supported by substantial evidence showing that the alternative is infeasible. Public Resources Code §§ 21081 (a), 21081.5; Guidelines, §§ 15091 (a)(3), 15092. Rejected alternatives must be "truly infeasible." *City of Marina v. Bd of Trustees of Calif. State Univ.* (2006) 39 Cal.4th 341, 369 ("*City of Marina*"); *see*, Guidelines § 15364 (defining "feasible"). Absent findings of infeasibility supported by substantial evidence, the City must adopt the Reduced Building Area alternative as it is environmentally superior in at least the area of visual impacts, and because the EIR claims that it also "reduces" air quality and GHG emission impacts, albeit without any supporting data to support those conclusions. Because this feasible alternative would reduce impacts according to the EIR, it must be adopted pursuant to CEQA.

VI. The Statement of Overriding Considerations Is Not Supported by Substantial Evidence

The Statement of Overriding Considerations asserts the Project will generate employment opportunities for local residents but this claim is not supported by evidence where the Project is speculative (*i.e.*, tenants and uses are unknown), and there is no commitment to local hiring. Claims that the Project is needed to support employment and tax-generating uses in the City are not supported by factual evidence such as economic data to show that the Project will generate revenue for the City or a certain number of jobs. The Statement of Overriding Considerations reads like a generic list of alleged benefits; and it is unsupported by any factual information. As the Project is speculative, the alleged benefits of the Project are simply unknown. Furthermore, as the City already has a multitude of warehouse projects either in development or proposed for development (including the 40+ million square foot World Logistics Center), it is simply unreasonable to assert, without evidence, that yet more industrial warehouse developments is needed for compelling economic reasons.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

VII. The City Has Improperly Segmented the "Park" Project from the Proposed Industrial Project

In connection with the proposed Project, the applicant has apparently proposed to fund an 18-acre public park as an alleged "community benefit". This "park project" is loosely described in ancillary project documents. Ostensibly the aim of the "park project" is to offer some "trade-off" "benefit" of the deleterious Project. This sports park at SE Redlands Blvd/Ironwood Ave is just north of SR-60 and on a City- designated diesel truck route which will be used by some of the World Logistic Centers 13,000 daily diesel truck trips as well as the proposed Project and about five other warehouses just south of SR-60. The children playing sports at the park will be breathing deeply and making the truck route even more harmful. The "park project" has not been evaluated pursuant to the Project EIR, in violation of CEQA.

Per CEQA, the two proposals – the industrial development project and the "park" that is included in the bundle of approvals that are being proposed in connection with the industrial development project - must be considered one "project" for purposes of CEQA review. The "park project" must be described and evaluated in the Project EIR. Without such disclosures and analysis, the EIR fails to provide sufficient information for the public and decision-makers.

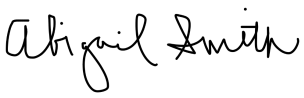
The term "project" under CEQA refers to the whole of an action and to the underlying physical activity being approved, not to each government approval (CEQA Guidelines, section 15378 (c).) The City may not "segment" the two proposals so that environmental review occurs separately. The City claims without legal or logical basis that the "Community Park is entirely separate from Developer's Project and is being proposed as a separate community benefit. The Community Park shall be subject to separate review and approval by the City." (Exhibit C to proposed Resolution 2022-__ [accepting community benefits, etc.]) CEQA does not permit segmentation of projects that are clearly related, as here. This is particularly the case when the "park" will be proposed in an area subject to major pollution from the World Logistics Center, SR-60, and other industrial development. The park is not "speculative" in that it is described in a discreet location, will be of a certain size, etc. The park is part of the proposed "project", as that term is defined broadly under CEQA, and, as such, it must be evaluated contemporaneously with the industrial development, so the environmental effects of the applicant's entire proposal can be properly evaluated and mitigated.

VIII. Conclusion

For these reasons, Sierra Club urges the City to deny the developer's appeal of this Project which will bring environmental harms and incompatible growth to an overburdened community.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Sincerely,



Abigail Smith
Attorney for Sierra Club – San Gorgonio Chapter

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Ann McKibben
To: Sean P. Kelleher
Cc: City Clerk
Subject: FW: Vote NO, F-1 Moreno Valley Trade Center, Nov 15, 2022 City Council Meeting
Date: Monday, November 14, 2022 5:02:01 PM

Warning: External Email – Watch for Email Red Flags!

Dear Mr. Kelleher:

I have sent the following letter to the city councilmembers and the mayor.

I am forwarding it to you so it can be included in the public record.

Ann McKibben

Re: VOTE NO—City Council Meeting, November 15, 2022, F-1 Moreno Valley Trade Center

Please vote NO on the Moreno Valley Trade Center project.

The proposed project would be adjacent to already established homes and neighborhoods. The project site is zoned for housing. It is not a compatible land use for adjacent homes. It does not follow the city's newly approved general plan

The levels of Air Pollution will worsen with the increase numbers of trucks moving through adjacent streets.

The increase in Traffic will negatively affect the quality of life for those who live adjacent to the proposed project and the city in general.

The city cannot 'mitigate' the project to protect our health and make it acceptable to adjacent residents.

I get weekly emails the city sends out regarding our community. All of them are very positive, upbeat about the quality of life, etc. in our city and all the good works the city staff and elected officials are doing for our community.

I don't see how putting new warehouses next to homes improves our community or makes it a livable community.

Please vote NO on this project.

Sincerely,
Ann McKibben
92557
Moreno Valley Resident since 1985

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Linda Scheschy
To: ulisesc@moval.o; Edward A. Delgado; Dr. Yxstian A. Gutierrez; Sean P. Kelleher
Cc: Terry 2Shay; City Clerk
Subject: Trade Center Proposal
Date: Monday, November 14, 2022 6:22:01 PM

Warning: External Email – Watch for Email Red Flags!

Please do not approve the Trade Center being proposed for the corner of Eucalyptus, Encelia and Redlands Blvd. The community next to that property is one of a few nice neighborhoods in Moreno Valley. Having a warehouse in the next plot of land will immediately lower our property value. We already have big trucks driving past the signs south on Redlands and backed up traffic coming from Sketchers getting on the freeway every day. We can already hear the warehouse operations from Solaris and they a mile away! East of us, beginning on Theodore there are thousands of vacant acres of land perfect for a warehouse and your proposed Pilot Station. Put them on that land, don't devastate this beautiful, quiet family community of tax payers with a warehouse in our backyard.
I was at the meeting in December 2021, and I know there were 3 "No" votes coming that night…your tax paying citizens DO NOT want this warehouse on this property!!! I know you will have lots of (Liuna)union members there tomorrow night to talk about "all" of the wonderful union jobs…they are not your tax paying citizens, they are paid by the developer to speak. Yep when the building is being built there will be temporary union jobs. They can have those same jobs, one mile away on Theodore. The Developer told us all in December there was not a tenant slated for that building…so when it is finished an unknown company may or may not (there are still thousands of square feet of vacant, new warehouse property, on Van Buren in Riverside) lease the building and they may already have employees they are relocating =NO NEW JOBS to Moreno Valley residents. I know all of you already know all of this…But your tax paying, voting citizens DO NOT WANT THIS BUILT on Redlands Blvd!

Sincerely,
Linda Scheschy
13315 Wexford Ave.
Moreno Valley

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rick Thomas Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 9:59:33 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rick Thomas
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Andrea Kristen Brown Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Andrea Kristen Brown
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Antonio Garcia Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Antonio Garcia
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Guy Durr Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Guy Durr
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: James Bergeron Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

James Bergeron
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Rena Martinez Stluka Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rena Martinez Stluka
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Adam Jensen Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Adam Jensen
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Daniel Tillery Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Daniel Tillery
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Dempster Jackson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Dempster Jackson
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Iddo Highland Scammer Benzeevi Fairview Corporate Influence Lowlife Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Iddo Highland Scammer Benzeevi Fairview Corporate Influence Lowlife
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Janneth Revelez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Janneth Revelez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lisa Turnbow Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lisa Turnbow
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lizbeth Gonzalez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lizbeth Gonzalez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Peterkin Anyanwu Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Peterkin Anyanwu
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Sandra Aguillon Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:25 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Sandra Aguillon
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Annette Du Pont Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Annette Du Pont
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Armand Haros Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Armand Haros
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Bill Everett Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Bill Everett
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: CHRIS FLORES Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

CHRIS FLORES
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Edgar Martinez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Edgar Martinez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ericka Thagard Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ericka Thagard
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Gina Velasco Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gina Velasco
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jaqueline Campos Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jaqueline Campos
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jessica Gomez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jessica Gomez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Juan Espinoza Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Juan Espinoza
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Laszo Valladolid Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Laszo Valladolid
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Maria Garcia Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Maria Garcia
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Mathias Ramirez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mathias Ramirez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Nicole Santana Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Nicole Santana
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Omari Smith Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Omari Smith
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Paulina Guillen Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Paulina Guillen
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Tyler Brunson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:26 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Tyler Brunson
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Abelardo Romero Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Abelardo Romero
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Beatrice Garcia Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Beatrice Garcia
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Belem Morris Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Belem Morris
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Catherine Mendoza Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Catherine Mendoza
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Davion Pearson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Davion Pearson
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Gael Scott Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gael Scott
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Gustavo Villagomez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gustavo Villagomez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jack Huggins Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jack Huggins
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jorge Peralta Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jorge Peralta
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Kellee Dobbs Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Kellee Dobbs
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Luis Vera Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Luis Vera
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Luis vasquez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Luis vasquez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Mayra Espinoza Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mayra Espinoza
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Mayra Espinoza Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mayra Espinoza
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Nelson Flores Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Nelson Flores
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rebeccah Musakwa Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rebeccah Musakwa
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: STEVEN CHRISTIAN Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

STEVEN CHRISTIAN
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Veronica Vicente Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Veronica Vicente
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Amara Navarro Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Amara Navarro
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Antonio Sylvia Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Antonio Sylvia
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Beatrice Irving Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Beatrice Irving
92567

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Carolina Sida Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Carolina Sida
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Enrique Guzman Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Enrique Guzman
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: James Hughey Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

James Hughey
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: James Trotter Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

James Trotter
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: John Zaragoza Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

John Zaragoza
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Joseph Bravo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Joseph Bravo
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lenin Moncayo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lenin Moncayo
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: MORE WAREHOUSES MORE POLLUTION Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

MORE WAREHOUSES MORE POLLUTION
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Mareena Perez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mareena Perez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Michael Joshua Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Michael Joshua
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Omar Cobian Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Omar Cobian
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Pamela Green Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Pamela Green
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Selena Bravo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Selena Bravo
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: renee rico Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

renee rico
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Alphandra Sanders Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Alphandra Sanders
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Angel Martinez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Angel Martinez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Fernando Palomares Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Fernando Palomares
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: George Aguilar Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

George Aguilar
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: James Rogers Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

James Rogers
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jesu Gonzalez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jesu Gonzalez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jose Martinez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jose Martinez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Kamari Reed Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Kamari Reed
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Mario Zuniga Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mario Zuniga
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Monisha Nix Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Monisha Nix
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Naomi Dyson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Naomi Dyson
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Nileshkumar Macwan Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Nileshkumar Macwan
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Paul R Schultz Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Paul R Schultz
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rachel Jackson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rachel Jackson
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Roberto Cervantes Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Roberto Cervantes
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ron Dudeck Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ron Dudeck
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Sergio Zambrano Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Sergio Zambrano
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Terry King Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Terry King
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: julio flores Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

julio flores
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cameron Carenen Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cameron Carenen
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Christine Ryan Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Christine Ryan
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Conrad Gomez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Conrad Gomez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: David Marquez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

David Marquez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Dominique Pearson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Dominique Pearson
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Hardeep Bassi Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Hardeep Bassi
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jeffrey Castillo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jeffrey Castillo
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jo Silva Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jo Silva
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Magdalena ZepedaSeLegue Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Magdalena ZepedaSeLegue
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Patrick Lucas Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Patrick Lucas
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Teesha Lucas Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Teesha Lucas
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: alejandro soto Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:30 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

alejandro soto
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Betty Jo Lewis Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:31 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Betty Jo Lewis
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Juan Orozco Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:31 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Juan Orozco
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Abraham Beltran Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Abraham Beltran
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cheryl Cerda-Uribe Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cheryl Cerda-Uribe
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Christopher Arteaga Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Christopher Arteaga
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Daniel Castaneda Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Daniel Castaneda
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Daniel Palomera Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Daniel Palomera
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Fernando F Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Fernando F
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Hugo Rael Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Hugo Rael
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Richard Silva Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:32 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Richard Silva
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cynthia Atkinson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:33 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cynthia Atkinson
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Daniel Navarrete Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:33 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Daniel Navarrete
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Morgan Maple Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:33 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Morgan Maple
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Erick Gutierrez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:34 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Erick Gutierrez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Martin Cuellar Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:34 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Martin Cuellar
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Gwin Shannon Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gwin Shannon
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jonathan Macias Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jonathan Macias
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Juan c Molina Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Juan c Molina
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Prince Hall Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Prince Hall
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: A G Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:37 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

A G
95551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: James Williamson Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:37 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

James Williamson
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Steven Horton Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:37 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Steven Horton
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Janet Velasco Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:38 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Janet Velasco
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Juan Gomez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:38 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Juan Gomez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Russell Shafer Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:39 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Russell Shafer
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Francisco Gallegos Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:40 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Francisco Gallegos
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Paul Vanderhoek Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:40 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Paul Vanderhoek
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Randy Wingate Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:40 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Randy Wingate
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Bryan Vallejo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:41 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Bryan Vallejo
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rick Thomas Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:06:42 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rick Thomas
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Gerardo Topete Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gerardo Topete
92533

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Hanh Truong Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Hanh Truong
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	contact@moreformv.com
To:	Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc:	contact@moreformv.com
Subject:	Noah Ball Says YES for Moreno Valley Trade Center!
Date:	Monday, November 14, 2022 10:11:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Noah Ball
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Samuel Brown Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Samuel Brown
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cheryl Foster Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:37 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cheryl Foster
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Betuel Rosas Jr Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:38 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Betuel Rosas Jr
92503

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Gracie Sanchez Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:39 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Gracie Sanchez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Hector Garcia Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:39 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Hector Garcia
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Otto Castillo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:40 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Otto Castillo
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Victor Mondragon Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:40 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Victor Mondragon
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Dalton McClymont Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:43 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Dalton McClymont
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jose Aguayo Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:43 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jose Aguayo
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Abraham Campos Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:44 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Abraham Campos
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Robert Hart Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:44 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Robert Hart
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lanier Milner Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:45 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lanier Milner
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Bernardo López Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:48 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Bernardo López
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ernie Barajas Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:49 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ernie Barajas
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Samuel Kennedy Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 10:11:50 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Samuel Kennedy
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Roderick Shelby Says YES for Moreno Valley Trade Center!
Date: Monday, November 14, 2022 11:18:27 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Roderick Shelby
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ivan Ocejo Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 1:53:23 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ivan Ocejo
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Robert Rodriguez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 4:07:31 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Robert Rodriguez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Anabelle Macaso Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 4:44:11 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Anabelle Macaso
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lori Hunter Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 5:15:15 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lori Hunter
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Nathan Martin Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 7:01:32 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Nathan Martin
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Jason Arellano Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 7:15:50 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jason Arellano
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Mary Gutiérrez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 9:49:09 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mary Gutiérrez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Juan Andrade Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 10:00:19 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Juan Andrade
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Manuel Aguiar Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 10:00:20 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Manuel Aguiar
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Marietta Trovela Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 10:09:33 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Marietta Trovela
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Loris Allen Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 10:15:01 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Loris Allen
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Zaseles S Ohm Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 10:46:27 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Zaseles S Ohm
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Sonia Guzman Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 11:02:07 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Sonia Guzman
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ramon Guzman Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 11:02:21 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ramon Guzman
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Lillian L Quartermus Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 11:26:47 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Lillian L Quartermus
92503

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Jason C. Lo
To: Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Gabriel Diaz; Sean P. Kelleher; Mike Lee
Subject: IN FAVOR: 1,300,000 sq ft Moreno Valley Trade Center (MVTC)
Date: Tuesday, November 15, 2022 12:10:03 PM

Warning: External Email – Watch for Email Red Flags!

Hi:

I am writing to support this project that I understand will be discussed on June 21, 2022. I have residential and commercial property in Moreno Valley, and believe that the MVTC warehouse project will benefit the city and its residents. It also will provide much needed tax revenue for road improvements, police, fire, schools, parks, and other community projects. I urge the city council to approve the project. Thank you.

-Jason Lo
213-245-1672

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Katherine Bailey Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 12:17:48 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Katherine Bailey
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Roy Latap Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 12:22:55 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Roy Latap
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rainier Dione Rodriguez Latap Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 12:22:57 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rainier Dione Rodriguez Latap
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	Tom Thornsley
To:	Ulises Cabrera; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Dr. Yxstian A. Gutierrez
Cc:	City Clerk; Sean P. Kelleher
Subject:	Moreno Valley Business Center and Moreno Valley Trade Center
Date:	Tuesday, November 15, 2022 12:33:09 PM
Attachments:	MVBC Findings for Project Denial.docx MVTC Findings for Project Denial.docx

Warning: External Email – Watch for Email Red Flags!

Mayor and Council Members,

There are so many conflicts with the two warehouse projects being considered at tonight's meeting of the City Council. Nether project should be approved for development as outlined in my previous letters. You will likely hear from a variety of residents this evening and hopefully you will be able to come to a consensus and deny each project. Additionally, both projects fail to make the findings necessary for a general plan amendment or a plot plan approvel. Attached you will find a full collection of Finding for Denial of Moreno Valley Business Center and Moreno Valley Trade Center.

Hope they are helpful.

Tom Thornsley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley Business Center

Finding for Denial of Plot Plan (PEN21-0079) presented in Appeals (PAA22-0002 AND PAA22-0003)

There are certain basic rules that either prohibit the City from approving a project or require it to approve a project. The most common ones are summarized below: City cannot legally approve any project if:

- Environmental documents, studies and mitigation measures are not legally adequate
- Project is not consistent with General Plan
- Land is not properly zoned for the proposed use

9.02.040 General plan amendments.
F. Required Findings. Amendment to the text or maps of the general plan may be made if:

1. The proposed amendment is consistent with existing goals, objectives, policies and programs of the general plan;

This project is not consistent with the prescribed land use.
List of GP Goal, Policies not met:

LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.

The proposed warehouse distribution center further expands the same employment base and fails to provide the city with a balanced mixes of employment opportunities.

LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

The proposed warehouse distribution center fails to expand employment opportunities beyond the multiple similar jobs options, thus not ensuring that a high quality of life can be maintained in Moreno Valley.

POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

This project will continue to unbalance the levels of employment opportunities. There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Without balanced levels of employment opportunities may

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley residents will be denied career field job locally, more employees will be driving to Moreno Valley for logistic jobs, both of which will not cut commute times or improve air quality.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors.

Warehouses adjacent to residential are not sensitive to the surround context.

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another.

This project fails to comply with the MoVal General Plan Building Massing and Design criteria by failing to address the visual dominance of a building proposed to be 48 or 100 feet tall as required when it is adjacent to existing residential neighborhoods.

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.

POLICIES

N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.

In the MoVal 2040 General Plan under Planning for a Pleasant, Healthy Noise Environment it says "separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy." Those residing in homes next to or near this warehouse project will be subjected to continuous background noise from outdoor on-site activities thus impacting the health and livable neighborhood that exists and diminishing the vibrant local economy – their residential property's devaluation.

N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.

N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.

Noise generation from the warehouse may fall below codified thresholds but sensitive receptors adjacent or near the noise sources will be subject to ongoing background noises 24/7 which can be considered disturbing and a nuisance during times of outdoor activity and at night. This project does not propose limited hours of operation thus this impact cannot be eliminated.

AIR QUALITY

EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

This project does not have guarantees that vehicles used with their operation will be zero emissions trucks and/or vans. Rebate programs are voluntary and this project needs mandatory compliance to meet this goal.

2. The proposed amendment will not adversely affect the public health, safety or general welfare.

9.02.030 Development review process.

5. Findings. Following the noticed public hearing pursuant to Section 9.02.200 of this chapter and unless otherwise specified in this chapter, the planning commission shall make the following findings before approving a major development review application:

a. That the proposed project is consistent with the general plan;

This project fails to meet multiple goals, objectives, policies and programs of the general plan as detailed under project findings for the general plan as previously outlined above.

b. That the proposed use is in compliance with each of the applicable provisions of this title;

The placement of this warehouse fails to meet the basic criteria for establishing buffering uses between residential and light industrial as stated under the Light Industrial District ". This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area." The complete text can be found below.

Municipal Code Development Standards

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

c. That the proposed use, together with the conditions applicable thereto, will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity of the proposal.

This project is not in compliance with the following:
9.02.030 Development review process.
B. Major Development Review Process.
1. Purpose and Intent. The major development review process is intended to implement general plan policies and other adopted policy and design standards, regulations and guidelines. To achieve quality development that is functionally as well as aesthetically enhancing to the community, and to minimize adverse effects on surrounding properties and the environment, the purposes of major development review are to ensure the following:

a. That the location and configuration of structures developed within the city are visually harmonious with their sites and with natural landforms and surrounding sites, structures, and streetscapes;

The development of a 48 or 100 foot tall warehouse is not harmonious with the surrounding environment of neighboring residential development.

d. That adverse environmental effects are minimized;

The environmental impacts are so significant that they cannot be mitigate for thus requesting that those impact be overridden due to benefits the project will

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

bring. This project offers not better benefits than multiple projects before it or the multitude of warehouse designated to be built on the World Logistics property. The best remedy to minimize the environmental effects is to deny the project.

f. That the materials, textures, colors and details of proposed construction are an appropriate expression of the design concept and function, and are, to the extent feasible, compatible with the adjacent and neighboring structures and functions;

g. That development proposals do not unnecessarily block scenic views from other buildings or from public ways, or visually dominate their surroundings with respect to mass and scale, to an extent inappropriate to their use;

Should be denied because the scale of the warehouse does most definitely block scenic views in all manors and will visually dominate their surrounding changing the character of the existing community.

k. That excellence in architectural design is maintained in order to enhance the visual environmental of the city and to protect the economic value of existing structures;

This project should be denied because even the modest architectural elements cannot shield the sheer size and mass of the warehouse which is not enough to enhance the visual environment. Conflicting uses such as a warehouse next to residential hurts the economic value of neighboring structures which in this case are residents' homes.

m. That the public health, safety and general welfare are protected;

This project fails to meet these criteria with the unmitigatable impacts to air, greenhouse gases, visual blight, increased truck traffic levels all diminishing the general welfare of the neighborhood and the community.

n. That development plans comply with applicable policies, standards, ordinances and design guidelines.

This project proposal does not comply with a number of the applicable policies and standards outlined in MoVal 2040 General plan as discussed here-in.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley Trade Center/Park

Finding for Denial of General Plan Amendment (PEN19-0191), Tentative Parcel Map (PEN19-0234), and Plot Plan (PEN19-0193)

There are certain basic rules that either prohibit the City from approving a project or require it to approve a project. The most common ones are summarized below: City cannot legally approve any project if:

- Environmental documents, studies and mitigation measures are not legally adequate
- Project is not consistent with General Plan
- Land is not properly zoned for the proposed use

9.02.040 General plan amendments.
F. Required Findings. Amendment to the text or maps of the general plan may be made if:

1. The proposed amendment is consistent with existing goals, objectives, policies and programs of the general plan;

This project is not consistent with the prescribed land use.
List of GP Goal, Policies not met:

LCC.1-1: Foster a balanced mix of employment, housing, educational, entertainment, and recreational uses throughout the city to support a complete community.

The proposed warehouse distribution center further expands the same employment base and fails to provide the city with a balanced mixes of employment opportunities.

LCC.1-2: Expand employment opportunities locally and provide sufficient lands for commercial, industrial, residential and public/quasi-public uses while ensuring that a high quality of life is maintained in Moreno Valley.

The proposed warehouse distribution center fails to expand employment opportunities beyond the multiple similar jobs options, thus not ensuring that a high quality of life can be maintained in Moreno Valley.

POLICIES
LCC.1-12: Balance levels of employment and housing within the community to provide more opportunities for Moreno Valley residents to work locally, cut commute times, and improve air quality.

This project will continue to unbalance the levels of employment opportunities. There is already a surplus of logistic jobs in the city and the WLC expects to add 20,000 more. Without balanced levels of employment opportunities may

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Moreno Valley residents will be denied career field job locally, more employees will be driving to Moreno Valley for logistic jobs, both of which will not cut commute times or improve air quality.

General

POLICIES LCC.3-1: Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors.

Warehouses adjacent to residential are not sensitive to the surround context.

LCC.3-2: Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another.

This project fails to comply with the MoVal General Plan Building Massing and Design criteria by failing to address the visual dominance of a building proposed to be 48 or 100 feet tall as required when it is adjacent to existing residential neighborhoods.

Goal N-1: Design for a pleasant, healthy sound environment conducive to living and working.

POLICIES

N.1-2: Guide the location and design of transportation facilities, industrial uses, and other potential noise generators to minimize the effects of noise on adjacent land uses.

In the MoVal 2040 General Plan under Planning for a Pleasant, Healthy Noise Environment it says "separating and buffering noisy land uses, and designing for a quiet indoor environment will contribute to a healthy, livable neighborhood and a vibrant local economy." Those residing in homes next to or near this warehouse project will be subjected to continuous background noise from outdoor on-site activities thus impacting the health and livable neighborhood that exists and diminishing the vibrant local economy – their residential property's devaluation.

N.1-5: Noise impacts should be controlled at the noise source where feasible, as opposed to at receptor end with measures to buffer, dampen, or actively cancel noise sources. Site design, building orientation, building design, hours of operation, and other techniques, for new developments deemed to be noise generators shall be used to control noise sources.

N.1-6: Require noise buffering, dampening, or active cancellation, on rooftop or other outdoor mechanical equipment located near residences, parks, and other noise sensitive land uses.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Goal N-2: Ensure that noise does not have a substantial, adverse effect on the quality of life in the community.

Noise generation from the warehouse may fall below codified thresholds but sensitive receptors adjacent or near the noise sources will be subject to ongoing background noises 24/7 which can be considered disturbing and a nuisance during times of outdoor activity and at night. This project does not propose limited hours of operation thus this impact cannot be eliminated.

AIR QUALITY

EJ.1-D: Work with the distribution and warehousing business community to improve outdoor air quality through improved operations and practices, such as planning for zero emissions trucks and vans.

This project does not have guarantees that vehicles used with their operation will be zero emissions trucks and/or vans. Rebate programs are voluntary and this project needs mandatory compliance to meet this goal.

2. The proposed amendment will not adversely affect the public health, safety or general welfare.

9.02.030 Development review process.

5. Findings. Following the noticed public hearing pursuant to Section 9.02.200 of this chapter and unless otherwise specified in this chapter, the planning commission shall make the following findings before approving a major development review application:

a. That the proposed project is consistent with the general plan;

This project fails to meet multiple goals, objectives, policies and programs of the general plan as detailed under project findings for the general plan as previously outlined above.

b. That the proposed use is in compliance with each of the applicable provisions of this title;

The placement of this warehouse fails to meet the basic criteria for establishing buffering uses between residential and light industrial as stated under the Light Industrial District ". This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area." The complete text can be found below.

Municipal Code Development Standards

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

9.05.020 Industrial districts.

A. Business Park District (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.

B. Light Industrial District (LI). The primary purpose of the light industrial (LI) district is to provide for light manufacturing, light industrial, research and development, warehousing and distribution and multitenant industrial uses, as well as certain supporting administrative and professional offices and commercial uses on a limited basis. This district is intended as an area for light industrial uses that can meet high performance standards. This district requires buffering between residential districts and industrial and warehouse structures greater than fifty thousand (50,000) square feet in building area within the LI district. Please refer to the special site development standards in Section 9.05.040(B)(9).

c. That the proposed use, together with the conditions applicable thereto, will not be detrimental to the public health, safety or welfare, or materially injurious to properties or improvements in the vicinity of the proposal.

This project is not in compliance with the following:
9.02.030 Development review process.
B. Major Development Review Process.
1. Purpose and Intent. The major development review process is intended to implement general plan policies and other adopted policy and design standards, regulations and guidelines. To achieve quality development that is functionally as well as aesthetically enhancing to the community, and to minimize adverse effects on surrounding properties and the environment, the purposes of major development review are to ensure the following:

a. That the location and configuration of structures developed within the city are visually harmonious with their sites and with natural landforms and surrounding sites, structures, and streetscapes;

The development of a 48 or 100 foot tall warehouse is not harmonious with the surrounding environment of neighboring residential development.

d. That adverse environmental effects are minimized;

The environmental impacts are so significant that they cannot be mitigate for thus requesting that those impact be overridden due to benefits the project will

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

bring. This project offers not better benefits than multiple projects before it or the multitude of warehouse designated to be built on the World Logistics property. The best remedy to minimize the environmental effects is to deny the project.

f. That the materials, textures, colors and details of proposed construction are an appropriate expression of the design concept and function, and are, to the extent feasible, compatible with the adjacent and neighboring structures and functions;

g. That development proposals do not unnecessarily block scenic views from other buildings or from public ways, or visually dominate their surroundings with respect to mass and scale, to an extent inappropriate to their use;

Should be denied because the scale of the warehouse does most definitely block scenic views in all manors and will visually dominate their surrounding changing the character of the existing community.

k. That excellence in architectural design is maintained in order to enhance the visual environmental of the city and to protect the economic value of existing structures;

This project should be denied because even the modest architectural elements cannot shield the sheer size and mass of the warehouse which is not enough to enhance the visual environment. Conflicting uses such as a warehouse next to residential hurts the economic value of neighboring structures which in this case are residents' homes.

m. That the public health, safety and general welfare are protected;

This project fails to meet these criteria with the unmitigatable impacts to air, greenhouse gases, visual blight, increased truck traffic levels all diminishing the general welfare of the neighborhood and the community.

n. That development plans comply with applicable policies, standards, ordinances and design guidelines.

This project proposal does not comply with a number of the applicable policies and standards outlined in MoVal 2040 General plan as discussed here-in.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: jason smith Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 12:54:55 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

jason smith
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Janet Velasco Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 12:54:55 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Janet Velasco
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Dennise Jimenez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 1:04:50 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Dennise Jimenez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

---------- Forwarded message ---------
From: **Lindsay Robinson** <lr92555@gmail.com>
Date: Tue, Jun 14, 2022 at 1:09 PM
Subject: MV Trade center concerns
To: David Marquez <davidma@moval.org>, Ulises Cabrera <ulisesc@moval.org>, Edward A. Delgado <edd@moval.org>, <cityclerk@moval.org>, <yxstiang@moval.org>, <elenab@moval.org>, <seanke@moval.org>, <gabrield@moval.org>

To whom it may concern,

Please accept my attached document regarding my opposition to the MV Trade center that is being brought forward again.

This project does not belong next to our homes and needs to be denied.

Thank you.

Lindsay Robinson

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Antonio mejia Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 1:30:19 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Antonio mejia
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Dennis Leon Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 1:35:24 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Dennis Leon
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cristina Rivera Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 1:56:06 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cristina Rivera
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Consuelo Gutierrez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:01:28 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Consuelo Gutierrez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jessica Lopez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:06:58 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jessica Lopez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Marina Fernandez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:07:00 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Marina Fernandez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	Lindsay Robinson
To:	David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk; Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; Sean P. Kelleher; Gabriel Diaz
Cc:	Jane Halstead
Subject:	Fwd: MV Trade center concerns
Date:	Tuesday, November 15, 2022 2:21:48 PM
Attachments:	June 14 MV Trade Center.pdf

Warning: External Email – Watch for Email Red Flags!

Dear council and staff,

My original concerns regarding the trade center still apply and are attached for your enjoyment. Please enter the attached in the record opposing the trade center.

I am also including some quotes from Mr. Gutierrez that appeared in the Press Enterprise so let's see if he really listens and cares about what the residents want. The additional "bribe" of a sports complex in another district does not outweigh the damage that will be done to the health and quality of life of the residents should you approve this abomination.

By Jeff Horseman | jhorseman@scng.com | The Press-Enterprise
PUBLISHED: April 29, 2022 at 2:28 p.m. | UPDATED: June 20, 2022 at 2:07 p.m.

Gutierrez:

..."I would always look at issues (as supervisor) independently and objectively and I would make sure the people are listened to," he added.

"Any time we look at an individual (development) project (we should) look at it from a social justice lens in terms of how can we benefit that community that's being impacted," Gutierrez said.

By Jeff Horseman | jhorseman@scng.com | The Press-Enterprise
PUBLISHED: October 8, 2022 at 7:00 a.m. | UPDATED: October 8, 2022 at 7:00 a.m.

What are your thoughts on the county's logistics industry? Should the county continue to add warehouses? If not, what ideas do you have for adding jobs in a county that lags behind its neighbors in education and income?

Gutierrez: I understand the concerns many Riverside County residents have about warehouses and their impacts on traffic and the environment. In general, if the community around a potential warehouse site doesn't want a warehouse built, then we need to listen to that community.

Thank you,

Lindsay Robinson

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

---------- Forwarded message ---------
From: **Lindsay Robinson** <lr92555@gmail.com>
Date: Tue, Jun 14, 2022 at 1:09 PM
Subject: MV Trade center concerns
To: David Marquez <davidma@moval.org>, Ulises Cabrera <ulisesc@moval.org>, Edward A. Delgado <edd@moval.org>, <cityclerk@moval.org>, <yxstiang@moval.org>, <elenab@moval.org>, <seanke@moval.org>, <gabrield@moval.org>

To whom it may concern,

Please accept my attached document regarding my opposition to the MV Trade center that is being brought forward again.

This project does not belong next to our homes and needs to be denied.

Thank you.

Lindsay Robinson

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

June 14, 2022
Moreno Valley Trade Center Round 2

To whom it may concern,

Please enter this into the Moreno Valley Trade Center Packet along with the additional documents as the previous concerns still apply.

I still believe that the mayor was allowed to act inappropriately when he tabled the discussion prior to voting when he saw he was not going to get his way.

The developer lied when he said that our school superintendent Kedzoira provided a letter of support for the project. Many of us were in disbelief and Mr. Kedzoira confirmed that he did NOT support this project or other warehouses. He thanked them for their donation (bribe) to the school wellness center. This should remind you all of the felony conviction Alex Ramirez received for the fraudulent letters of support for the Ironwood Village project. Superintendent Kedzoira is very well respected and this lie tarnished his reputation for many people and a public apology is warranted. The magnitude of this lie should be reason enough to vote no and black list Hillwood from the city.

Mr. Gutierrez sent out many glossy mailers as well as inundated residents with campaign calls. **One such call stated that he does not approve of warehouses near homes/residential areas.** That's great news for the residents as it means he will not approve this project.

Campaign mailers from most of you all say you're going to bring better businesses and high paying jobs yet what we see are warehouses, gas stations and fast food. Once elected the promises fade away. Let's start honoring your promises and bring those high paying jobs and better businesses. Moreno Valley could be so much more than what it's been doomed to.

Our General Plan Update has recently been completed and rezoning projects should not be coming forward to soon especially one as hypocritical as this that takes residential land away. The city's excuse for destroying the community character of the NE by letting Chung rezone R2 to R10 was that we needed more homes to meet state mandates therefore residential land should not be rezoned to warehouses.

Why hasn't Hillwood said where the residential R2 PAKO homes will be relocated as required by law?

Hillwood's presentation admitted they have no tenant thus all of the estimates could be way off regarding traffic, noise, pollution. It's a spec building and thus needs to be denied.

Have any of you sat and watched trucks navigating Benzeevi's absurd roundabout? It was clearly not designed for large trucks so now more trucks are heading west thru the auto mall to Moreno Beach which could be a violation of the Prologis agreement that all

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

trucks go east to Redlands. This roundabout will not be able to handle trucks from this project as well as wlc so where will these trucks illegally drive? We aren't getting sufficient truck enforcement nor traffic patrols in the east end as it is.

Has our municipal code for noise been amended yet to require warehouses shut down from 10 pm to 7 am if they're next to homes? If not, this project needs to be denied.

This project's EIR has too many significant negative impacts that severely harm the residents' health and quality of life. For too long the city flippantly over rides these severe impacts. There are laws that are supposed to protect us from these travesties. For too long now the city staff have wantonly used the "override" to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University,* 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. "CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project's benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

5.1 Significant Environmental Effects that Cannot be Avoided if the Project is

Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOx emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

The wlc is 10% of our city's land due to Benzeevi's ability to buy off our former council/pc members. Any future warehouses need to be placed on wlc land and not next to homes. Let Hillwood negotiate with Benzeevi to place his warehouse there perhaps next to Alessandro that they wish to pave. Other warehouses near homes have already been approved. Please ask how much total land is now warehouses in our city and say enough is enough. None of you would enjoy living next to a warehouse so don't inflict this on the established residents. Other cities have imposed moratoriums on warehouses and it's time Moreno Valley does the same. Put the residents health and quality of life first!

Dear Council members,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Please respect the residents and the planning commission decision and vote NO on the Moreno Valley Trade Center. The 2006 general plan as well as the current mayor appointed planning commission realized that warehouses do not belong next to our residential homes.

This area of Moreno Valley was renamed to Rancho Belago and it was touted as the "Beverly Hills" of Moreno Valley complete with matching signs. Unfortunately thru less than ethical processes the warehouses to the east of these homes were approved. These residents do not deserve to now be surrounded on two sides with warehouses and 24/7 noise, traffic, light and air pollution.

The Hillwood presentation tries to depict a rosy picture but the reality is that the warehouse does not belong there. They have no tenant so all the data on traffic and noise they are providing is irrelevant.

Redlands south of Eucalyptus is not a truck route yet they have a truck entrance near the south end of the building near Encelia. There is no proposal to change the truck route, so they will be breaking the law.

An incredible amount of traffic will be using Encelia to exit the project during shift changes yet no street light was proposed. If it becomes an Amazon distribution center their vehicles will be invading the residential streets to reach Redlands.

Some of the houses will receive air filtration systems therefore they acknowledge the severe negative impact of their pollution. If air filtration is needed in the homes how will they protect the kids/adults who are playing and working outside? A yes vote means you really don't care about the health of the residents.

This project has a long list of money they're "donating" to different causes. Sure looks like Pay to Play if not bribery.

Unless there is a point of sale, the revenue the city may get is not worth the damage they will do.

Jobs- there will be many more jobs associated with building the 148 homes and more long term jobs. 148 homes will need upgrades, repairs, landscape maintenance etc for many years to come and will employ a large variety of tradesmen.

This warehouse hopes to remove approximately 148 half acre principal animal keeping homes at a time when the city claims we need more homes. The pandemic has shown us that people and especially children need space and yards to play thus the R2 PAKO zoning must remain especially as your new GPU allowed Nelson Chung to rezone our R2 PAKO land north of the freeway to his preferred R10 (Pay to Play goes full circle).

The Hillwood presentation talked about moving the 148 PAKO homes to another area but did not say where. It's my understanding they are supposed to show the new location for the displaced residential land. Where else in the city will they put those homes?

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Noise- the city needs to amend their municipal noise ordinances to include warehouse noise. Warehouses in or near residential homes need to cease operation from 10 pm to 7 am. Just as loud parties, construction, yard equipment noise is restricted so must the warehouse noise. A perfect example is the horribly designed paper company building that the city approved that disrupts sleep and forces residents to keep their doors and windows shut all day to avoid the obnoxious droning. Would any of you want to have a generator running in your front yard all night? I don't think so and the excuse that it's "within acceptable limits" is absurd. None of you would find it acceptable so don't force it on us. Beeping trucks all night long is also disruptive and needs to cease.

One of the items they bragged about was paving Alessandro thru the wlc property- something Mr. Benzeevi is responsible for and won't help the city since Mr. Benzeevi intends to close Alessandro east of Merwin thru his property and the city signed off on it. Cactus will become the through street.

This warehouse appeared as a done deal on the maps shown during the public GPU meeting. An astute resident noticed it as the project had not come forward yet. The GPU consultant stated that city staff informed him it was already approved. So once again the city promoted a project that had not come before them yet just as was done years ago for wlc.

There is not sufficient data regarding the compounding effect that residents will suffer if both the wlc and the trade center are developed. The wlc will be bad enough, don't compound it. Vote NO on the mv trade center.

The 2006 general plan and the current planning commissioners did the right thing. They protected the residents from a warehouse next to their homes. They chose to value the residents' health and quality of life over a quick profit for a developer.

People choose to live in areas that suit their interests and income levels. No one I've met chooses to live next to a warehouse and no city should rezone residential property near existing homes to warehouses. The city has made many horrible decisions with regard to warehouses don't let this be one of them.

I doubt any of you (council, staff, and developers) live next to a warehouse nor would you choose to do so. The negative impacts are too detrimental and can't be mitigated so please vote NO on the MV Trade Center- wrong location and it's your responsibility to make the residents' health and quality of life a priority!

Thank you,
Lindsay Robinson

Moreno Valley Trade Center dEIR concerns

To whom it may (or may not) concern,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Please include this in the public record to voice my concerns on the inadequacy of the draft EIR related to the Moreno Valley Trade Center proposed at a location on Redlands Blvd. south of Eucalyptus.

As with the other warehouse projects, the city staff and developers make light of the significant negative impacts that can't be mitigated and they unethically continue to override them without adequately addressing the cumulative effect of all the previous projects who also had their significant negative impacts unmitigated (pollution, noise, traffic etc.). Some of these projects that directly affect the residents south of Encelia include the wlc, Aldi, Prologis warehouses and the sleep disrupting Solaris paper company and now commercial zoning just north of them. The developers and staff that promote these obscene projects do not live here and leave us to suffer the consequences of their bad decisions and yes outright false data in order to get their projects approved.

Many at city hall have forgotten who they work for- it's the residents not the developers and our health and quality of life should be their priority, not the financial enrichment of developers. Would the city staff and developers want this to happen where they live- have their views blocked, breathe bad air, have non-stop truck traffic 24/7 disrupting their sleep with beeping and brakes noise etc.? People moved out here for the larger lots, animal keeping, quiet, night skies, low crime to name a few. We poured our life savings into purchasing our homes in an area we researched and thought was the right place for our families. Warehouses were never intended out here and especially the encroachment into residential areas as the MV Trade Center intends to do. The 2006 comprehensive general plan protected the residents, the new plan does not.

This project was already included on the general plan update as a done deal. It was on the map and consultant thought it was already approved. How did that happen when it hadn't even come forward yet? Again underhanded action at city hall just like when the city promoted the wlc prematurely. This warehouse does not belong here and needs to be eliminated.

The land that this abomination intends to rezone is resident R2 with animal keeping rights. The city keeps whining about losing control if they don't meet certain housing numbers yet they want to remove residential land in favor of another warehouse. They just allowed Chung/Benzeevi committee to remove more animal keeping residential land so we need to preserve what is left. The city needs to stop contradicting themselves and using RHNA when it suits them. DO NOT ALLOW THIS LOSS OF RESIDENTIAL LAND FOR ANOTHER WAREHOUSE ENCROACHING INTO AN EXISTING NEIGHBORHOOD!

Their traffic studies and analysis contain many areas that need to be addressed more completely and false data/info removed. Encelia is not a high traffic street and is not a truck route and should never become one. **Why have the traffic numbers been**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

inflated for Encelia **to make it seem like all the project driveways won't impact the residents??**

This project intends to direct a huge amount of traffic onto a quiet street and onto Redlands. Redlands Blvd south of Eucalyptus is NOT a truck route although large numbers of trucks break the law daily.

This study seems to assume that Encelia and Redlands will be ok for their trucks when they are not truck routes. **Why hasn't this study adequately addressed the illegal trucks using Redlands Blvd south of Eucalyptus? Will this project pay for additional police patrols to stop the illegal truck traffic? The trucks going south on Redlands to Cactus will have severe negative impacts on the other housing tracks along Redlands and Cactus so why isn't this addressed satisfactorily? These large trucks also destroy our roads much quicker than passenger vehicles- will this project (and wlc) be held accountable in paying for the damage to our roads? It has been mentioned that this will be another Amazon distribution center, if so is their adequate parking and law enforcement for all their small delivery trucks?** We have Amazon in our city already and do not need another. Their drivers are dangerous and invade neighborhoods parking their vehicles off the premises. Again, all these neighborhoods will suffer compounded health and quality life issues associated with adding another warehouse to their already affected community. **Will this project finance the additional police we will need to protect our residents from all these negative impacts associated with our residential road use?**

Employee traffic- we all know that people look for quicker routes to and from their destinations. **How will you protect the existing residents from excessive employee/truck traffic through their quiet neighborhoods?** Non-residential traffic is much more dangerous than residential. **How will you stop employees from parking in our residential neighborhoods? Where are the safe guards and the non-residential traffic noise, dangerous driving, pollution needs to be addressed not over ridden.**

Why have the safe equestrian trails been eliminated from this study? Our master planned trail system includes a safe equestrian overpass at Theodore and it should be down Redlands (and Theodore) to connect with Lake Perris. Only pedestrian and bikes get mentioned.

Aesthetics-The 2006 general plan included many more protections to our residents that this project will destroy. The wlc high cube warehouses will obstruct the resident's wonderful views to the east and now this project will obstruct their views to the north. Just another severe negative impact that is compounded by other projects that have already been approved. Loss of the substantial views to east is bad enough so do not allow this project to obstruct their remaining views. **Why isn't the city protecting the residents better rather than over riding this compounded severe negative impact?**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Pollution- the city and out of town developers continue to play Russian roulette with our health by approving unlimited warehouses to encroach into our residential areas. There are so many studies already done that show the damage done to our lungs from diesel and other fuels- especially the young and seniors**. Why didn't this EIR address the NOx pollution that will be associated with the project operation? Along with air pollution there will be substantial noise and light pollution 24/7 that are not adequately addressed- will the truck noise and lights be stopped at 10 pm as other activities need to? Will the city finally address this issue and amend our noise ordinance to include warehouses in residential areas?** The beeping trucks at skechers all night have disrupted sleep of those who live north of it and since it opened they haven't been able to sleep with their windows open. Since the paper company opened the noise has disrupted both daytime and night time sleep and that should not be allowed to occur with any more warehouses. **Why hasn't the compounded effect been addressed adequately to include the injustice that this neighborhood will suffer from with the already approved wlc? Do NOT claim it doesn't need to be addressed!**

Water- I don't believe that the EMWD is being truthful on being able to supply water to all these projects coming forward- wlc and the commercial north of the freeway will suck up so much water. I was appalled to read that they will dig a well for their project and suck out the aquifers which aren't getting adequately replenished during so many years of drought. The Festival also dug a well recently and will also be taking aquifer water. We have residents whose property relies on well water that these projects may deplete. **Where are the safeguards for these residents? Why was there no research and data collected on what happens when excessive underground water is removed? How much water will they be pumping from their well? When the underground water is pumped out, the ground will settle and homes could start sinking and sink holes could develop on our roads. Will this project be responsible later down the road for all the damage they've done? This well pumping by warehouses should NOT be allowed and certainly without safe guards and restrictions.**

Jobs- once again the promise of jobs is bandied about to entice people to like this project. The 2006 and 2021 general plans as well as city propaganda every year promise to bring high paying jobs to Moreno Valley so people don't have to commute. Warehouses do not bring those high paying jobs promised. This project like the wlc will swallow up in huge amount of valuable land for a small number of jobs that are not high paying. **What guarantee is there that there will be 2000 permanent high paying jobs? Why hasn't the city learned from past lies from developers in order to get their project approved (skechers/benzeevi promised thousands and did not deliver)?** Warehouses and even trucks are becoming more automated, therefore less jobs and most are temporary. **Why do you keep bringing up the commuting issue when it's been shown that our resident commute times are on average or less than surrounding communities?** In fact the majority of city staff commute into Moreno Valley to work so it is a non-issue intended to instill fear. **Why does the city staff**

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

continue to condemn our residents to low paying warehouse jobs? We deserve better.

For too long now the city staff have wantonly used the “override” to approve too many projects with significant negative impacts in a manner that I believe is illegal. For too long, staff have incorrectly asserted that the City may simply adopt a statement of override when a project results in impacts.

Not so — procedurally, the lead agency can only approve a project with significant environmental impacts if: (1) the adverse environmental effects of a project have been substantially mitigated, or (2) mitigation measures or alternatives are infeasible *and* overriding considerations exist which allow approval of the project. (PRC § 21081; Guideline §§ 15091, 15093.)

Overriding considerations do not come into play unless there are *no* feasible project alternatives. (*City of Marina v. Board of Trustees of the California State University,* 2006, 39 Cal.4th 341,368.) The lead agency, therefore, cannot merely adopt a statement of overriding considerations and approve a project with significant impacts; it must first adopt feasible alternatives and mitigation measures. “CEQA does not authorize an agency to proceed with a project that will have significant, unmitigated effects on the environment, based simply on a weighing of those effects against the project’s benefits, unless the measures necessary to mitigate those effects are truly infeasible. (*Id.* at 376.)

Now with CEQA in play, the city/developer try to claim that rejecting the project and leaving the zoning as is will result in the same if not more severe negative impacts that just leave me speechless. With RHNA in play we need these residential homes- especially as the pandemic has shown kids and adults need larger yards to play in to remain safely distanced. Our large lot neighborhood home sell quickly and are in demand so we need to keep our R2 designation. The **NO PROJECT ALTERNATIVE** is the correct selection and the MV TRADE CENTER needs to be denied.

Our city has been overwhelmed by warehouses and at this point there needs to be a moratorium. No more warehouses and we need more open space per the law. The compounded effects are real and dangerous and should no longer be ignored.

As residents we don’t have investor money to afford legal services and PR staff the way developers do. Our hard earned money went into purchasing our homes in a place chosen that suited our life styles. We moved further out of town to larger lots, space, low crime, night skies, views etc. and trusted that our city government would actually work to protect us as city governments were set up to do. Staff and elected officials take ethics training and oaths of office to do so. Unfortunately developer money has completely corrupted our system of government and the residents have not been protected. Rejection of the Moreno Valley Trade Center will be the start to reverse prior environmental injustices inflicted on the tax paying residents of Moreno Valley.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Thank you,

Lindsay Robinson

Resident of Moreno Valley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: malardner@aol.com
To: Sean P. Kelleher; Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera
Subject: Moreno Valley Trade Center appeal @ city Council Meeting tonight
Date: Tuesday, November 15, 2022 2:25:21 PM

Warning: External Email – Watch for Email Red Flags!

I am unable to attend the meeting to tonight so I wanted to be sure my comments are seen and considered for this hearing.

I urge you to uphold the Planning Commission's recommendation to not approve this project. It is not the right location for this project and is not consistent with our recently completed general plan that had extensive input. As the planning commission also said there is already a huge area in the general plan zoned for this type of project that has had almost nothing built yet (the World Logistics Center). The WLC area is a huge area already zoned for this type of building nearby and is not as close to homes and does not require a rezoning.

To summarize my more detailed comments below, the Moreno Valley Trade Center project is right across a small street from existing homes, severely impacts the viewshed of these homes (they would have a view of a towering 35 foot berm), will still have noise impacts (loading docks and lots of trucks just on the other side of the berm), and air pollution effects that are not mitigated to non-significance, and will add more truck traffic and employee vehicle traffic to a very small traffic circle and overpass on Redlands Blvd. The number of trucks is extremely high for this facility. And while this project would provide construction jobs that are temporary, the homes zoned for this area would also provide future construction jobs for much needed housing in the city, or could provide construction jobs if built in an area zoned for this type of facility.

The project at first may sound as if it has been scaled back to reduce impacts from the project since the Planning Commission recommended against it, most of the changes are minor and still result in several significant impacts as before.

The reduction in the size of the building is minor as the square footage is only reduced by less than 5 % from the previous proposed size.

The number of truck loading docks will only reduced by 4 out of a total of 117 on the south side of the building closest to the homes - that is still 113 loading docks on the south side nearest homes! And another 90 loading docks (instead of 97) on the north side. 203 loading docks total still at this building! That is a lot of loading docks and would not be a significant change to the amount of noise and air pollution coming from this activity. And another 228 tractor trailer parking spaces besides the loading docks. That is a lot of trucks in a relatively small area right next to existing homes!

The visual impact is changed but not reduced. Instead of the current scenic vistas, the existing homes houses will have a view of a 35 foot berm right along Encelia Avenue just feet from the homes and way taller than the one story homes there. This berm will block a view of the building more but still remove any vistas they now have. And none of the changes will reduce pollution impacts as the truck numbers are high, loading docks are still nearby on the south side of the building and trucks will idle, travel and park just on the other side of the berm from the homes.

While this project appears to remove previous traffic impacts to Encelia Avenue itself, there will still be more trucks in the area that will pollute the air, damage roads, continue to run over curbs at the too small roundabout and impact the too small overpass and ramps at Redlands Blvd with no proposal to improve the overpass anytime soon. There will be a high volume of employee cars also added to Redlands Blvd. as well as a traffic signal added on Redlands Blvd. between Encelia and Eucalyptus. Redlands Blvd. at certain times of day is very busy already. I thought the traffic circle was to help improve traffic flow but the signal then added seems to counteract that attempt. And traffic over the overpass already backs up at

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

certain times of day.

As far as providing construction jobs, the homes that were zoned for the area would also provide construction jobs and there is a very high demand for more housing.

The city is also proposing more homes just to the southwest of this trade center according to the general plan and those potential residents have no say in this proposal since it has not been developed yet and would impact them as well especially from noise and air pollution.

This project is also right next to the Prologis Development on Eucalyptus that was made to revise their proposal to keep large buildings away from the homes that are now going to be impacted by this proposal. How is it right to have that developer revise their project to keep it further from the homes and now put a bigger building even closer to those same homes?

This is also another change to the very new general plan that was supposed to be a vision for the city for many years to come. What is the point of all of the work that went into the general plan to turn around and immediately change it? As the planning commission pointed out this is not the right place for this project and there is already a nearby very large area approved in the current general plan for this type of project.

Please do not approve this project at this location.

Melody Lardner
34 year resident of Moreno Valley

I am unable to

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Tracy Hodge
To: Sean P. Kelleher
Subject: Public Hearing re: PEN19-0191 INITIAL STUDY FOR THE MORENO VALLEY TRADE CENTER PROJECT
Date: Tuesday, November 15, 2022 2:36:05 PM
Attachments: INITIAL STUDY FOR THE MORENO VALLEY TRADE CENTER PROJECT.pdf

Warning: External Email – Watch for Email Red Flags!

Mr. Kelleher,

This email is to **reject** the project proposed for the project location:
South of Eucalyptus Avenue, North of Encelia Avenue, East of Quincy Street and West of Redlands Boulevard.

Based on the Initial Study for this project, there is nothing that should be acceptable about this project due to the numerous items that will significantly impact our community.

Without significant drainage upgrades to the entire east end of the community, this project will directly impact the runnoff into our residential community causing increased flooding to our residential neighborhood.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

ISSUES & SUPPORTING INFORMATION SOURCES:	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less Than Significant Impact	No Impact
protective or avoidance measures. The Project's potential to violate any water quality standards or waste discharge requirements during short-term construction and/or long-term operational activities, and the protective and avoidance measures proposed by the Project to address water quality will be fully analyzed in the EIR.				
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐
Response: Within the City of Moreno Valley, there are few domestic uses for groundwater due to salinity/water quality issues; therefore, the City primarily relies on imported water from the Eastern Municipal Water District (EMWD) for its domestic water supply. The Project does not propose the installation of any water wells that would directly extract groundwater; however, the proposed increase in impervious surface cover (e.g., building area, pavement) that would be installed on the Project site would reduce the amount of water percolating down into the underground aquifer that underlies the site – although it should be noted that the Project would provide design features such as pervious landscaped areas and a water quality/detention basin that would maximize percolation on-site. As noted in the City's General Plan FEIR (Moreno Valley, 2006, p. 5.7-12), "the impact of an incremental reduction in groundwater would not be significant as domestic water supplies are not reliant on groundwater as a primary source." Accordingly, with buildout of the Project, the local groundwater levels would not be substantially affected. As such, impacts to groundwater supplies and recharge would be less than significant.				
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:				
i) Result in substantial erosion or siltation on- or off-site?	☒	☐	☐	☐
Response: During construction of the Project, soils would be exposed and subject to erosion at the Project site. The Project Applicant would be required to adhere to standard regulatory requirements to minimize water pollutants including sedimentation in stormwater runoff, including, but not limited to, requirements imposed by the City of Moreno Valley's National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permit and a Project-specific Stormwater Pollution Prevention Plan (SWPPP) and Water Quality Management Plan (WQMP). Mandatory compliance with these standard regulatory requirements are expected to preclude substantial adverse environmental effects related to erosion or siltation. Notwithstanding, the EIR will evaluate the Project's potential to result in substantial soil erosion.				
ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite?	☒	☐	☐	☐
Response: A site-specific hydrology study will be prepared to evaluate whether the Project would result in a substantial change in the rate or amount of runoff from the site. Any increase in the rate or amount of runoff from the site could result in increased potential for flooding on downstream properties. The results of the site-specific hydrology study will be documented in the EIR.				
iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☒	☐	☐	☐
Response: As indicated under Response X(a), the Project's potential to result in sources of polluted runoff will be disclosed and evaluated in the required EIR. A hydrology study will be prepared for the Project to evaluate the Project's proposed stormwater drainage system; the hydrology study will identify if the existing stormwater drainage system can adequately accept stormwater runoff from the Project site or if improvements are needed. The findings of the hydrology study will be disclosed in the EIR.				

Moreno Valley Trade Center Page 29 City of Moreno Valley

The site map also included shows there will be truck docks on the south side of the building that will inherently allow trucks to use and access the building by using the residential street Encelia Ave. This road connecting at Redlands Blvd. was never designed for truck traffic let alone high volume vehicle traffic.

Also, what will keep all the business traffic from using the residential neighborhood as their main streets to enter and exit their facility?

It is strongly requested that should this building be allowed I will petition for no business access for any vehicles along Encelia. We will also petition that our entire community have all new drainage, landscape improvements with

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

NO portion of the DIF to be paid by the stakeholders of Moreno Valley.

Truck Traffic on the 60 Freeway will drastically impact our community.

Tracy Hodge

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Eric Weaver Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:39:11 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Eric Weaver
92552

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rohan Saini Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:39:15 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rohan Saini
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Marx Garcia Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:43:44 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Marx Garcia
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jim Hois Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:43:47 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jim Hois
15243

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Andrea Matey Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:43:48 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Andrea Matey
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Angelita Talamantez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 2:53:38 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Angelita Talamantez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: brooke hall
To: Sean P. Kelleher
Subject: SUPPORT THE Moreno Valley Trade Center (warehouse)
Date: Tuesday, November 15, 2022 3:07:21 PM

Warning: External Email – Watch for Email Red Flags!

Hello Sean Kelleher,

I am appealing to the Moreno Valley council to support the new Moreno Valley Trade Center. I believe it will be extremely beneficial to our community. Some of the many benefits include increased revenue for the city, an influx in job supply, more jobs created for the police and fire department.

This facility will also increase property value, provide increased tax revenue for better roads, and bring more commerce to our local businesses. We as a community can use these new jobs and revenue especially in the current economic climate.

I am a strong advocate for this project and believe in its positive impact.

Thank you,

Brooke Victoria

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Anthony Galvan Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:09:08 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Anthony Galvan
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Patricia Gutierrez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:09:09 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Patricia Gutierrez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Mashawnna Dailey Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:09:10 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Mashawnna Dailey
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Rosendo Miranda Jr Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:09:10 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Rosendo Miranda Jr
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Elizabeth Cordero Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:09:12 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Elizabeth Cordero
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ray Espinoza Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:14:35 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ray Espinoza
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jose Cordero Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:14:36 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jose Cordero
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Paul Quach Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:14:44 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Paul Quach
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Gregory Paiva
To: Sean P. Kelleher; Ezri Vargas; Julia Descoteaux; James Verdugo, CBO, Certified Access Specialist (CASp #624)
Cc: Manuel A. Mancha; Michael Lloyd, P.E.; Brian Mohan
Subject: RE: Voice Message from DAY MAIN MENU Tel: 9093548015
Date: Tuesday, November 15, 2022 3:15:34 PM
Attachments: image004.png

Warning: External Email – Watch for Email Red Flags!

Absolutely. The best way to get ahold of me is via cell phone (951)522-8917.

Here is the information received from the Department of Cannabis Control:

"Lastly, I understand Teresa let you know that we are still waiting for a response from the local jurisdiction. Did the city happen to get to back to you at all? Our local jurisdiction group sent the city another request to respond on September 28 but still no response from them."

Feel free to send the edits through the portal or email them directly to me.

Thank you again for these quick clarifications.

Natasha Velasquez
Licensing Analyst
844-61-CA-DCC (844-612-2322)
info@cannabis.ca.gov
www.cannabis.ca.gov

Thank you gain and I look forward to working with all of you.

Gregory Paiva | Compliance Manager
2151 E. Convention Center Way, Suite 235 | Ontario | CA 91764
Main 909.292.6723 Ext. 6723
Cell 951-522-8917
gpaiva@intrepidcorporate.com

Electronic Privacy Notice This e-mail and any attachments contain information that is or may be covered by electronic communication privacy laws and is also confidential and proprietary in nature. If you are not the intended recipient, please be advised that you are legally prohibited from retaining, using, copying, distributing or otherwise disclosing this information in any manner. Instead, please reply to the sender that you have received this communication in error and then immediately delete it. Thank you for your cooperation.

From: Sean P. Kelleher <seanke@moval.org>
Sent: Tuesday, November 15, 2022 3:10 PM
To: Ezri Vargas <evargas@frontier-enterprises.com>; Julia Descoteaux <juliad@moval.org>; James Verdugo, CBO, Certified Access Specialist (CASp #624) <jamesv@moval.org>
Cc: Manuel A. Mancha <manuelm@moval.org>; Michael Lloyd, P.E. <michaell@moval.org>; Gregory Paiva <gpaiva@intrepidcorporate.com>; Brian Mohan <brianm@moval.org>
Subject: RE: Voice Message from DAY MAIN MENU Tel: 9093548015

EXTERNAL EMAIL: Do not click any links or open any attachments unless you trust the sender and know the content is safe.

Hi Greg,

Can you please share your number with us as well?

Thank you,

Sean

Sean P. Kelleher
Planning Division Manager/Planning Official
Community Development
City of Moreno Valley
p: 951.413.3215 | e: seanke@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITED FROM PUBLIC DISCLOSURE.
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSAGE.
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

-----Original Appointment-----
From: Sean P. Kelleher
Sent: Monday, November 14, 2022 10:50 AM
To: Sean P. Kelleher; Ezri Vargas; Julia Descoteaux; James Verdugo, CBO, Certified Access Specialist (CASp #624)
Cc: Manuel A. Mancha; Michael Lloyd, P.E.; Gregory Paiva; Brian Mohan
Subject: Voice Message from DAY MAIN MENU Tel: 9093548015
When: Tuesday, November 15, 2022 3:00 PM-3:30 PM (UTC-08:00) Pacific Time (US & Canada).
Where: https://moval.zoom.us/j/84471312640

Hi there,

Sean P. Kelleher, Planning Division Manager is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting

One tap mobile: US: +16692192599,,84471312640# or +16699006833,,84471312640#
Meeting URL: https://moval.zoom.us/j/84471312640
Meeting ID: 844 7131 2640

Join by Telephone

For higher quality, dial a number based on your current location.
Dial:
US: +1 669 219 2599 or +1 669 900 6833 or +1 253 215 8782
Meeting ID: 844 7131 2640

International numbers

Skype for Business (Lync)

https://moval.zoom.us/skype/84471312640

From: Ezri Vargas <evargas@frontier-enterprises.com>
Sent: Monday, November 14, 2022 10:47 AM
To: Sean P. Kelleher <seanke@moval.org>; Brian Mohan <brianm@moval.org>
Cc: Manuel A. Mancha <manuelm@moval.org>; Michael Lloyd, P.E. <michaell@moval.org>; Gregory Paiva <gpaiva@intrepidcorporate.com>
Subject: RE: Voice Message from DAY MAIN MENU Tel: 9093548015

Warning: External Email – Watch for Email Red Flags!

Thank you Sean

I am available anytime in the afternoon after 2

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

CC'ing our compliance manager Greg as well

From: Sean P. Kelleher <seanke@moval.org>
Sent: Monday, November 14, 2022 10:44 AM
To: Brian Mohan <brianm@moval.org>; Ezri Vargas <evargas@frontier-enterprises.com>
Cc: Manuel A. Mancha <manuelm@moval.org>; Michael Lloyd, P.E. <michaell@moval.org>
Subject: RE: Voice Message from DAY MAIN MENU Tel: 9093548015

Good Morning Ezri,

I am away from the office today but would be available for a call tomorrow. We are preparing the final conditions of approval based on the Planning Commissions' action. Your next step will be to submit to the building and safety division for your proposed tenant improvements.

Thank you,

Sean

Sean P. Kelleher
Planning Division Manager/Planning Official
Community Development
City of Moreno Valley
p: 951.413.3215 | e: seanke@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITED FROM PUBLIC DISCLOSURE.
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSAGE.
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

From: Brian Mohan <brianm@moval.org>
Sent: Monday, November 14, 2022 10:41 AM
To: Sean P. Kelleher <seanke@moval.org>
Cc: Ezri Vargas <evargas@frontier-enterprises.com>; Manuel A. Mancha <manuelm@moval.org>; Michael Lloyd, P.E. <michaell@moval.org>
Subject: FW: Voice Message from DAY MAIN MENU Tel: 9093548015

Sean,

As the release and waiver is now signed (separate email), please respond to Ezri's voicemail on next steps from Planning now that the appeal in nullified.

Brian

Brian Mohan
Assistant City Manager
Chief Financial Officer/City Treasurer
City Manager's Office
City of Moreno Valley
p: 951.413.3024 | e: brianm@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA 92553

From: CX ServiceAccount <cxserviceaccount@moval.org>
Sent: Monday, November 14, 2022 10:37 AM
To: Brian Mohan <brianm@moval.org>
Subject: Voice Message from DAY MAIN MENU Tel: 9093548015

Sender's comments are located in WAV file at end of message.

CX ServiceAccount
e: cxserviceaccount@moval.org w: www.moval.org

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Michelle
To: Sean P. Kelleher
Subject: I am for the MVTC
Date: Tuesday, November 15, 2022 3:15:57 PM

Warning: External Email – Watch for Email Red Flags!

Dear council member

As a 25 year voting resident of Moreno Valley I strongly support the above project to vote yes. The project will help our community in many ways without hindering us financially. The revenue will improve Moreno Valley such as a much need park and road ways located near the project.
This project will help with revenue for the support of our police, fire, schools, and other city employees.
I strongly support this and see only positive outcome from this project
Sincerely
Michelle Hall
Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Luis Gomez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:24:54 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Luis Gomez
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Roxana Palacios Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:24:55 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Roxana Palacios
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Paul Bradvica
To: Sean P. Kelleher
Cc: City Clerk Staff DG
Subject: Dennis Leon | 714.299.0547
Date: Tuesday, November 15, 2022 3:30:55 PM

Hi Sean,

The City Clerk's Office received a call from Mr. Dennis Leon stating his support for the Moreno Valley Trade Center. The resident indicated he would like his support included in the public record.

Thank you,

Paul Bradvica
Deputy City Clerk
Mayor & City Council Offices
City of Moreno Valley
p: 951.413.3001 | e: paulb@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Stephanie Diaz Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:39:45 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Stephanie Diaz
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Benito Marquez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 3:39:46 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Benito Marquez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Robert Torrez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 7:11:04 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Robert Torrez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Oralia Sandoval Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 7:16:00 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Oralia Sandoval
92571

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	Peggy
To:	Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Ulises Cabrera; Dr. Yxstian A. Gutierrez; Sean P. Kelleher
Cc:	City Clerk
Subject:	Agenda F.1 MVBC (Moreno Valley Business Center)
Date:	Tuesday, November 15, 2022 7:19:24 PM

Warning: External Email – Watch for Email Red Flags!

Moreno Valley Mayor, City Councilmembers and Planning Commission

Enough with the Warehouses! The proposed project MVBC F.1 set on the agenda at the 11/15/22 City Council Meeting tonight is too much. When and where will you STOP? There are locations that are appropriate and then there are locations that are NOT...this is NOT.

Seriously, do your job, think about the residents who live in this area and the residents who shop in this area and the many CARS that use Day St to get to the other side of town. Now think about the added traffic, especially semi-trucks, residents walking or riding their bikes, nearby schools and parks, pollution. We were assured that all the warehouses in the east end and now on Heacock and Ironwood would not cause a problem, they would not be using our streets, such as Ironwood! We now know that was a lie.

Just yesterday while taking my kids to Box Springs Elementary School located on Athens Dr./Ironwood Ave; while waiting at the light, I counted eight Logistic semi-trucks pass by me like an endless caravan, heading toward Day St. and Box Springs. This was due to the stopped traffic on the west bound 60 fwy. More and more out of area trucks and vehicles are discovering that Ironwood will keep them moving all the way to the end. The traffic in this city is relentless. Before the only semi-trucks you would see on Pigeon Pass/Ironwood was Staters Bros. or Home Depot...now we have all the idiots who don't want to sit on the congested 60. It's dangerous for the parents and kids trying to get to school.

Now you want to completely make Day St an area where residents will avoid and therefore also find somewhere else to spend their money. What about the nice new Hotels in that area have been slowly attracting visitors who need to stay nearby? Do you really think they want a view of warehouses, semi-trucks, traffic, pollution? I think not.
The residents who live in that area, the ones who've waited years and years for road improvements, basic water service, waited for the area they live in to be cleaned up, crime and other undesirable things to improve...are going to get screwed again by sweet deals, by others who don't live there, who will dictate the outcome of their home equity. It's wrong on every level.

Please vote against this project. It's not enough to just change the general plan to fit deep pockets...to say it's okay, there's other warehouses in the area.

Peggy Holmes
36-year resident of Moreno Valley

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Deyjon Anderson Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 15, 2022 7:59:09 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Deyjon Anderson
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Scarlett Navarrete Says YES for Moreno Valley Trade Center!
Date: Wednesday, November 16, 2022 4:04:13 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Scarlett Navarrete
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Ruben Alatorre Says YES for Moreno Valley Trade Center!
Date: Wednesday, November 16, 2022 5:38:58 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ruben Alatorre
92571

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Eric Knox Says YES for Moreno Valley Trade Center!
Date: Wednesday, November 16, 2022 2:38:48 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Eric Knox
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Emily Hernandez Says YES for Moreno Valley Trade Center!
Date: Wednesday, November 16, 2022 6:05:12 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Emily Hernandez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Leonardo Gonzalez Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 6:17:29 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Leonardo Gonzalez
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Regina Lindsay Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 6:21:43 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Regina Lindsay
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Doaa Abdelaziz Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 6:56:24 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Doaa Abdelaziz
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Jasmin Rivera
To: Sean P. Kelleher
Cc: City Clerk Staff_DG
Subject: FW: MVTC
Date: Thursday, November 17, 2022 7:38:35 AM

FYI

Jasmin Rivera
Management Assistant
City Clerk's Office
City of Moreno Valley
p: 951.413.3037 | e: jasminr@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

-----Original Message-----
From: Corinne Orozco <healthybingo@icloud.com>
Sent: Tuesday, November 15, 2022 3:41 PM
To: City Council_DG <council@moval.org>
Subject: MVTC

Warning: External Email – Watch for Email Red Flags!

PLEASE VOTE AGAINST THE MVTC NOT GOOD FOR OUR COMMUNITY!!!

PROFESSIONAL PLAZAS WILL EASILY CREATE MORE JOBS!

STOP THE POLLUTION, DONT MAKE MV AIR QUALITY EVEN WORSE!

STOP THE INSANE TRAFFIC!!

STOP MOVING US OUT BECAUSE OF WAREHOUSES. MENIFEE AND BEAUMONT SAID NO AND THEIR COUNCIL LISTENED TO THEM.

YOU KNOW WHATS RIGHT.
AT LEAST THINK OF YOUR CHILDRENS FUTURE. PLEASE!!!

Sent from my iPhone

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Jose Aguayo Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 2:52:34 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Jose Aguayo
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Richard Gaston Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 6:48:29 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Richard Gaston
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Reginald Best III Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 6:57:44 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Reginald Best III
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: SANDRA WILLIAMS Says YES for Moreno Valley Trade Center!
Date: Thursday, November 17, 2022 11:51:07 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

SANDRA WILLIAMS
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Ella Williamson Says YES for Moreno Valley Trade Center!
Date: Saturday, November 19, 2022 9:10:20 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Ella Williamson
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Henry Combs Says YES for Moreno Valley Trade Center!
Date: Saturday, November 19, 2022 1:36:57 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Henry Combs
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Hassan Gaffar Says YES for Moreno Valley Trade Center!
Date: Sunday, November 20, 2022 9:12:07 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Hassan Gaffar
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Kandie Rayne Says YES for Moreno Valley Trade Center!
Date: Sunday, November 20, 2022 12:24:54 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Kandie Rayne
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Kandie Raryne Says YES for Moreno Valley Trade Center!
Date: Sunday, November 20, 2022 12:29:45 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Kandie Raryne
928883

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: RL Jones
To: Sean P. Kelleher; Ulises Cabrera
Cc: City Clerk
Subject: Warehouse approval
Date: Saturday, November 19, 2022 6:15:53 PM

Warning: External Email – Watch for Email Red Flags!

I have been a resident of Moreno Valley for over 36 years. The mushrooming of warehouses and insidious increase in semi traffic and resulting traffic congestion is disturbing to me. This has caused me to seriously consider moving out of the city.
Warehouses and their high semi traffic and resulting air pollution do not belong in or near houses or schools.
The city needs more employers and more than minimum wage or manual labor employment.
We don't need to have a reputation of one of the largest warehouse centers in the US but that's what it appears to me to be the mission of the city government this century.
Ruth Jones

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Alice Alvidrez Says YES for Moreno Valley Trade Center!
Date: Tuesday, November 22, 2022 4:31:15 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Alice Alvidrez
92555

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Michael Ramirez Says YES for Moreno Valley Trade Center!
Date: Friday, November 25, 2022 11:47:49 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Michael Ramirez
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Cheryl Smith Says YES for Moreno Valley Trade Center!
Date: Sunday, November 27, 2022 7:19:48 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Cheryl Smith
92557

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept DG; Planning Email DG
Cc: contact@moreformv.com
Subject: Prince Hall Says YES for Moreno Valley Trade Center!
Date: Sunday, November 27, 2022 7:48:00 PM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Prince Hall
92551

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: contact@moreformv.com
To: Dr. Yxstian A. Gutierrez; Elena Baca-Santa Cruz; David Marquez; Ulises Cabrera; Edward A. Delgado; City Clerk"s Dept_DG; Planning Email_DG
Cc: contact@moreformv.com
Subject: Candice Lee Says YES for Moreno Valley Trade Center!
Date: Monday, November 28, 2022 9:31:07 AM

Warning: External Email – Watch for Email Red Flags!

Please Vote Yes for the Moreno Valley Trader Center project!

I am a Moreno Valley resident who supports the Moreno Valley Trade Center!

Additionally, I support the project because it:

- Creates 1,500 NEW jobs
- Creates a 18-acre sports and kids park
- Contributes $6.5 million for community services
- Creates new traffic signals, resort-caliber landscaping, and noise reducing barriers

I want this to be read into the record at the city council meeting regarding this matter.

Candice Lee
92553

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Crystal Jimenez
To: Sean P. Kelleher
Subject: No More Warehouses
Date: Monday, November 28, 2022 11:19:21 AM

Warning: External Email – Watch for Email Red Flags!

Good morning,
I'm writing this email to stand up for the families that will be affected from the two new warehouses that are planned to be constructed. We have enough warehouses. These families will have to live through the noise, the traffic, and diesel pollution/smell 23/7/365 days a year! I ask that you be considerate of these families. These people moved into a neighborhood they fell in love with and that could be taken from them. We want our Moreno Valley residents to feel comfortable when they're at home, to have their peace and quiet and to be able to simply enjoy the comfort of their home which will be taken from them if the warehouses are built.
My name is Crystal Jimenez, I hope you can really take this email to heart and consider why it wouldn't be a good idea to build warehouses.
Thank you,

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From:	Darric
To:	Dr. Yxstian A. Gutierrez; Ulises Cabrera; Edward A. Delgado; David Marquez; Elena Baca-Santa Cruz; Sean P. Kelleher; City Clerk; Cheylyndaforcouncil@gmail.com
Cc:	Alvaro Valdivia; Andre Moye; Antonio Hoggins; tolken501@gmail.com; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cindy Ramos; Crys Tom; DAMON FOREMAN; Darric Williams; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jeff Sims; Jesus Flores; John Hubbs; Jose Garcia; juancortega87@gmail.com; Karie Woodward; Ken Morin; luckys55@aol.com; Lisa Tuy; Liz Anderson; lalfaro1962@gmail.com; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; nelly_meza126@yahoo.com; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; sfwhardy@yahoo.com; Sharilyn Bankole; Shelly Mesa; Terry Scheschy; cdftom@aol.com; Tom and Terri Thornsley; VERONICA Ramos
Subject:	MVTC & 2nd Moreno Valley warehouse Moreno Valley Business Center (MVBC) on Tues. Dec 6th City Council agenda at 6 pm
Date:	Wednesday, November 30, 2022 11:18:04 AM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

I am resending my previous statement with some additional information.

Please include these comments as part of the record for the above-mentioned public hearing. I am a resident of the Heritage Ranch community, the southern border of this proposed project. **We again ask you to uphold the Planning Commission's denial of entitlements for this project** for the same reasons that were voiced on December 7, 2021, during the applicant's appeal of their decision. While it is true that the developer has reached out to me with some proposed changes that will eliminate the traffic exiting onto Encelia Ave., **the environmental impact has not changed**. There will still be the **same amount of pollution in our neighborhood** as described in the FEIR, the **same truck and employee traffic congestion at the roundabout of Redlands and Eucalyptus**, and the **same property devaluation** to our homes if this project is approved.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. The objective fact that we have to sit through 50+ paid shills of this MVTC political theatre is disappointing. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would disapprove. It is shocking to us that some of the things that people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for Moreno Valley do not live in this community. This is not a good project... If you approved this project then you will want to approve the Pilot Truck stop next... I would like to not assume that you care more about city revenue than the health and well-being of the people in your community.

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Mr. Marquez, Cabrera, and Delgado, you were ready to vote no on December 7th after listening to us. The June 21, 2022 vote was conveniently postponed till Nov 15th right after the current elections. Again, please revisit the project's location and **visualize the magnitude of a 1.3 million sq. ft. building** and what it will do to our neighborhood.

The same sentiments are shared for the MVBC.

If these developers are offering $500,000 to the city to develop in areas that will cause irreparable harm to the community then there must be something that is innately wrong with the project. **It does not fit in with this community and my children will pay the price for greed and power**. You ran as Democrats that are supposed to care about the community and environment over corporate greed. But again objectively you are considering large warehouses that **will not have many six-figure jobs and tons of low-wage jobs** that are not making a liveable wage. **Then you are going to consider a Pilot Truck stop dispensing "Gas" when it does not align with our all-electric future,** besides the fact that we already have **four gas stations in a two-square-mile area**. I already own two electric vehicles. This behavior that is being tolerated does not fit in with our progressive agenda and typifies the corporate monster that is allowed to propagate itself in retrospect to what you ran on as politicians and supposed protectors of the community.

Reiterating the sad part is that we will rehash the sideshow of union workers claiming to be a part of our community that somehow we never see at our local meetings tell us how good this project is for Moreno Valley, to say nothing of how it will affect the immediate local residents. These actors are not in fact a part of our local community. They never talk about family, kids, traffic, noise, or air quality in the local community. They only talk about jobs. Low-paying warehouse jobs. Why is that? Because they do not live here off of Redlands. They have no interest in our concerns about why this project's location and proximity to our community is a net negative.

At the end of the day, I like business and growth... Just not at the expense of my home, children, and the overall well-being of our community. This project can exist... They just need to move it into the area that was already zoned for this... Move it off Theodore...

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

--
Darric V. Williams

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 2 of 3 [Revision 4] (6209 : Moreno Valley Trade Center/Park)

From: Jeff Sims
To: Sean P. Kelleher; City Clerk; Manuel A. Mancha
Subject: MVTC
Date: Wednesday, November 30, 2022 2:58:42 PM
Attachments: 11 30 22 (MVTC Letter).pdf

Warning: External Email – Watch for Email Red Flags!

Hi,

I respectfully ask this letter and attachments be included with the agenda packet for the upcoming MVTC appeal anticipated for the December 6, 2022 Council Meeting.

Thanks,

Jeff Sims

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

November 30, 2022

To: Honorable Mayor and City Council Members
City of Moreno Valley

From: Jeff Sims
Area Resident
City of Moreno Valley Planning Commissioner

RE: Moreno Valley Trade Center
Appeal PAA21-0001

On October 28, 2021, the Moreno Valley Trade Center ("MVTC or Project") was considered by your appointed Planning Commission and unanimously denied entitlement approvals based on its lack of consistency with the recently updated City of Moreno Valley General Plan – 2040. On December 7, 2021, the Developer appealed this unanimous decision of the Planning Commission to the City Council. After considerable input by interested stakeholders, Council Members deliberated. Deliberation comments by Council Members Delgado, Cabrera, and Marquez suggested a potential majority vote to uphold the Planning Commission's decision. Mayor Gutierrez acknowledged this with his statement "it doesn't appear there is support for the project." Instead of calling for the vote, Gutierrez motioned for a continuance, which was seconded and approved. Apparently, the continuance was to give the Developer time to address concerns and objections stated at the Planning Commission, and City Council appeal.

Of note the Developer heard the concerns and objections regarding the project at the October 28, 2021 Planning Commission Hearing where it was unanimously denied but cavalierly five weeks later at the City Council Appeal Hearing addressed none of the concerns. A person could go down many paths on why none of the concerns were addressed. But an obvious reason is Hillwood's motivation is profit driven with little to no concern of the impacts on the City, and especially for the existing residential neighborhood directly adjacent to the proposed MVTC. Hillwood wants the Project entitled to achieve their goal of maximizing profit.

The continued appeal was scheduled for June 21, 2022. The Developer at the last minute pulled the item from the agenda. It is understood the Developer between December 7, 2021, and June 21, 2022, offered additional "City Benefits" including a proposed Developer funded park near Ironwood and Redlands Blvd., and a $500,000 cash contribution to the Moreno Valley Community Fund (of which I understand the Council Members control the allocation and disposition of the funds). The MVTC appeal was most recently pulled from the November 15, 2022 Council Meeting due to lack of quorum.

Although at the time of writing this letter the Project Conditions and Agenda Packet for the December 6, 2022, meeting was not available it is my understanding after speaking with City Planning staff these additional "City Benefits" are still on the table, and the plans and conditions for the Project are essentially the same as those proposed in June. The question I ask each of you is – is the offering by the

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Developer to influence approval of their Project adequate consideration for the actual harm and damage it will impose on your citizens who live in the existing residential neighborhood directly next to this proposed project?

As one of your appointed Planning Commissioners I find the project is a nice logistics/warehouse project, but in the wrong location. Its location simply is not compatible with the existing land uses adjacent to it. Below are some of the concerns I had and still do about the MVTC:

1. Incompatible Land Use - The proposed MVTC land use is not consistent with the City of Moreno Valley General Plan Update. The General Plan Update indicates R-2 zoning for the property where the MVTC is proposed. The General Plan Update process and the entitlement review process for the proposed MVTC was happening concurrently over a two-year time frame. It is hard to believe city planning staff, city leadership, including the Council was not aware of the proposed MVTC during the General Plan Update process. The General Plan process considered the need to retain compatible land uses adjacent one another and appropriately retained a residential land use adjacent the existing half and third acre residential lots directly adjacent to the property where the MVTC is proposed. Your Planning Commission recognized the incompatibility of land uses and denied the MVTC entitlements due to its lack of consistency with the City's General Plan as approved by this Council. Why go through the years of effort to develop and approve a General Plan update and then not honor it?

2. Traffic – The original MVTC design proposed for maximum utility of a warehouse a design where thousands of daily employee passenger car trips would be dumped onto Encelia Avenue. Encelia Avenue is a one lane in each direction residential street and one of the two main access points into the adjacent existing rural residential neighborhood. The Developer indicated at the Planning Commission Hearing "they tried everything they could to mitigate impacts on the adjacent neighborhood, but the design as proposed was necessary so truck traffic in and out of their proposed project would not interface with their employee ingress and egress." Their proposed solution to the problem they are creating is to make a forever problem for the existing neighborhood. Now Hillwood has modified the MVTC to not allow MVTC traffic onto Encelia Avenue by building a 40 ft. wide private street parallel to Encelia Avenue. This close to half mile long private street will be "masked" from sight behind a 35 ft. tall berm, but the adjacent neighborhood will undoubtedly be subjected to significant increases in noise and forced to breath the air pollution as this proposed private circulation road is only 250 feet away from existing homes along Encelia Avenue. Since this is a proposed logistics/warehouse operation (or e-commerce fulfillment operation) with no time limits on operation, the noise and air pollution will be imposed on the existing neighborhood 24/7 – 365.

3. Air Pollution – Although I am a registered civil engineer, I am not technically versed in the details of air pollution. But it does not take an engineering degree to know regardless of what study says what, when thousands of new daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in air pollution in the vicinity. Hillwood in hopes to placate nearest residents offers band aid mitigation. Ask yourself, would I want my family to breathe in diesel soot 24/7 – 365 for as long we continued to live there? Who wants to live where you need air filtration for your home and to have the

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

exterior of the house power washed due to ongoing pollution? Is it fair to the citizens who invested in this neighborhood to be polluted on for the benefit of a profit driven developer who won't live next to the mess they have created?

4. Noise Pollution – Like with air pollution, it does not take an engineering degree to know regardless of what study says what, when thousands of new daily car and truck trips are introduced into an area where they previously were not, there will be a significant and immediate increase in noise pollution in the vicinity. Hillwood in hopes to placate nearest residents again offers some band aid mitigation. Ask yourself, would I want that right next to my house? Councilmember Cabrera during the appeal hearing stated his first-hand experience about noise impacts from the logistic/warehouse use near his home and indicated it was noticeable. There will be increased noise pollution happening all hours of every day. The revised and current MVTC site plan shows a private truck circulation road where trucks will be driving parallel along Encelia only 230 ft. away from homes 24/7 – 365. The 40 ft. wide private road is on the neighborhood side of the proposed 14 ft. screen wall and appears to be at an elevation where the exhaust pipes of the diesel trucks will be only a few feet below the top of berm. The proposed 14 ft. screen wall only screens the southerly loading dock area and does nothing to mitigate sounds from the trucks using the private circulation road. Essentially the Developer eliminated the traffic problem on Encelia Avenue from the Project but did so at the expense of increased noise and air pollution – both of which are clearly incompatible with the existing residential neighborhood.

5. No boundary/perimeter fencing along Encelia Avenue – As mentioned above under #2 "Traffic", the project proposes installing a massive 35 ft. high landscaped berm along Encelia Avenue with a goal to mask the project from the existing residential neighborhood. The berm will obliterate existing northerly viewsheds currently enjoyed by the existing neighborhood (35 ft. high graded berm relative to existing Encelia street elevations and then topped with trees). The Developers own plans show cross sections of this berm to scale (attached). When looking at the cross section, notice the relationship of the person to the height of the berm and trees. The area of open space on the south side of the MVTC property, including the landscaped berm totals around 7.5 acres with no perimeter fencing along Encelia Avenue. If the Project is approved and built as proposed, going toward the Project from the northerly right of way of Encelia Avenue there will be a 35 ft. high landscaped berm (relative to existing centerline elevation of Encelia Avenue), then a landscaped open space between the berm and a 40 ft. wide private truck circulation road, and then a 14 ft. high screen wall. Attached are cross-sections showing all of this from the Developers plans. Concern about this include:

    a. The 14 ft. screen wall will do nothing to constrain any of the noise from the truck traffic using the 40 ft. private truck circulation road as the private truck circulation road is on the neighborhood side of the screen wall. The private truck circulation road is being proposed to enable trucks to access loading dock on the north and south side of the proposed 1,200,000+ sf warehouse/logistic building 24/7 – 365 days per year from Eucalyptus only. Looking at the Developer provided cross-sections, the private truck circulation road elevation is such where the exhausts stacks of the trucks will be very

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

close in elevation to the top of the 35' graded berm. The noise and pollution from the truck traffic on this private truck circulation road will directly impact the neighborhood as it is only 230 ft away from the existing homes.

b. As proposed, there is no perimeter fencing for the Project along Encelia Avenue to deter unwanted loitering, camping, or trespassing on the privately owned 7.5 acres of landscaped open space. With Encelia Avenue kept as a quiet, low traffic residential street directly adjacent a large unfenced open space, one can reasonably anticipate this unfenced, unsecured open space area will become attractive to homeless along with the problems associated therewith. This would be further exacerbated if the Pilot Travel Center is approved on appeal to Council. The residents living in this neighborhood while at work to pay for their homes they invested in will have to worry about increased property theft, and other crimes potentially carried out by those occupying the unfenced, unsecured open space.

When deliberating on this project, I ask you to think about these five above compatibility issues. Would you want this next to your home? But beyond straight compatibility issues there are other concerns.

For those who drive Redlands Blvd. on a routine basis to access the 60 Freeway know the roundabout at Eucalyptus is challenging now during peak periods caused by existing traffic. You don't have to be a traffic engineer to know this will be exacerbated with the addition of the proposed MVTC. This problem will likely remain for decades until the Redlands/60 interchange is upgraded. I say decades because as a resident of the City of Moreno Valley living in the east end since 1994, I've seen how long the Moreno Beach interchange has taken to be improved, and it's still not done. The City is getting the cart in front of the horse approving major truck and traffic producing projects where supporting road infrastructure is obviously deficient. The Redlands Blvd/60 interchange is deficient now and addition of the proposed MVTC will further degrade the quality of life of area resident's dependent on this interchange. The daily drive in and out of Moreno Valley is already miserable during morning and evening commute times due to existing freeway congestion on the 60 between the 60/215 interchange and 60/91 interchange. Absent an improved Redlands/60 interchange the MVTC will add more time lost to sitting and slogging through added traffic congestion trying to get off 60 at Redlands Blvd. and navigating through the roundabout. I am sure most, if not all, of the area residents who use the 60 to get to work agree the proposed MVTC will exacerbate an already miserable daily commute.

The Moreno Valley portion of the draft LAFCO Municipal Services Report is attached. As you know LAFCO is an unbiased governmental entity to monitor services provided by various municipalities within Riverside County. There are some interesting findings in this unbiased report you as elected leaders of this City should be mindful of:

1. The median household income in Moreno Valley is lower than the rest of the County of Riverside
2. Moreno Valley's population grew slowly during the last decade at just 0.77%
3. Population growth over the next 15-25 years is not expected to keep up with county-wide growth rates
4. The City's land use profile "is disproportionately skewed towards industrial development with almost 75% of the City's commercial square footage designed for industrial users"
5. Largest employers are distribution centers

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

6. The City will not meet its Regional Housing Needs Assessment 6th cycle (RHNA) in all income categories.
7. Major sources of income:
    a. Property tax
    b. Sales tax
    c. Property tax in lieu of vehicle licensing fee
    d. Utility tax

Supporters of large box distribution/logistic facilities tout benefits of job creation, increased ability to work near home, and living wages. If this is true, why is the median income in Moreno Valley lower than the rest of the County of Riverside? Why is the City's population growth slow and expected to stay slow? Perhaps it is because most logistic/distribution jobs don't pay living wages sufficient to own and buy a home. How many of these jobs are full-time, benefited jobs? Or are the job creation numbers inflated due to part-time and seasonal worker turnover? Perhaps the word on the street is Moreno Valley is becoming a less attractive place to live and raise a family because of its disproportionately skewed land use of industrial development which creates traffic congestion, difficulty to get in and out of Moreno Valley, low paying jobs, and added air and noise pollution.

This Council recently approved an update to the City's General Plan with this property planned for residential development consistent with the existing residential directly adjacent. If you can somehow find a way to justify approval of the proposed MVTC from the "city benefits" over the irreparable harm to the adjacent residential residents, this land use change approval (GPA and zoning) from residential to industrial shows a continued disregard by the City in meeting its state of California Regional Housing Needs Assessment (RHNA) metrics. A more appropriate General Plan Amendment to consider for these 80 acres would perhaps be a transitional residential use. For example, the property could transition from R-2 along Encelia Avenue (for consistency with existing homes) to higher density residential along Eucalyptus (for compatibility with existing warehouse uses). At least there would be a buffer for the existing residential use with similar and compatible uses. Under this scenario, people moving there would do so acknowledging/accepting the surrounding existing land uses. And with transitional higher density residential, the City could indicate progress towards meeting RHNA metrics by providing more opportunity for affordable housing consistent with Moreno Valley incomes.

We all know the City needs increasing tax increment revenues from development to meet ever growing expenses. If the MVTC is built on this property, the property tax increment received by the City will see an initial large increase (over current) then see only small incremental increases due to Prop 13 legislation. In contrast if developed as residential land use consistent with the recently updated General Plan, the City would receive an initial large increase in property taxes, plus receive ongoing increased sales tax, and utility taxes as the added residential population will live, shop, and spend in Moreno Valley. Also, as part of a residential development the residential developer would be required to pay development impact fees such as park fees to fund a park.

Saying no is hard especially on union supported projects. Labor unions focus on keeping their dues paying members employed. But how many of those dues paying union members live in Moreno Valley or anywhere near where this project is proposed? The reality is not many, if any, do. After a union supported project is approved those same union representatives will be at the next Planning Commission and Council Meeting in whatever town the next project is proposed. It's understood it is quite an undertaking to get elected and re-elected. It takes backing and money to get exposure. Hats off to all of you seeking elected office. Maybe it's a bit naïve on my part, but it would be nice to believe

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

those seeking elected office remember the people who live, shop, and spend in Moreno Valley are the ones who are most impacted by the consequences of the decisions. Out-of-towners and special interest campaign contributors who participate to influence local city elections won't live with the negative, harmful impacts of the projects they support. In the recent special election in April, the council seat win was not by significant margin which may be indicia people are beginning to take note of the policies and stances of people seeking elected office here in Moreno Valley. As traffic in and out of Moreno Valley gets worse and neighborhoods are impacted by traffic, noise, and air pollution from warehouse projects it is likely there will be less support for leadership who supports approving them.

Many cities are pushing back on warehouse/logistics project approvals. There is an awareness of the incompatibility of these land uses adjacent to or near existing residential land uses. With the already approved World Logistics Center comprising approximately 2,800 acres, perhaps tapping the brakes a bit would not be a bad decision.

In the event the Council makes findings and justifications indicating the proposed MVTC has more benefit to the City than harm despite Planning Commission denial and significant area opposition, it is requested the Council condition the MVTC with the following added improvements:

1. **Addition of perimeter fencing along the entire length of Encelia Avenue such 6 – 8 ft. high metal fencing with masonry pilasters. Common sense should make this an obvious requirement.**

2. **Record an irrevocable deed restriction or some other legally sufficient mechanism on the property forever disallowing any project traffic onto Encelia Avenue. The only exceptions would be access for emergency by Fire or Police, and if the property in the distant future was redeveloped into residential.**

3. **Addition of a traffic signal at the intersection of Redlands and Dracaea or Encelia.**

4. **Full improvement of the west side of Redlands Blvd. between Encelia and Dracaea. It is anticipated the proposed MVTC is already conditioned to fully improve Redlands Blvd. along its frontage between Eucalyptus and Encelia and provide for adequate transition from full improvement on Redlands for southbound traffic to the existing two-lane roadway on Redlands between Encelia and Dracaea. This would complete Redlands Blvd. between Eucalyptus and Cottonwood and be an incremental add to the project conditions.**

Items 3 & 4 are needed to provide area residents with safe access to Redlands Blvd. and ability to leave the area via Cottonwood to Moreno Beach or Alessandro to avoid congestion at the roundabout and the unimproved 60/Redlands interchange. To provide some equity to the MVTC Developer, the Developer and the City could enter into a reimbursement agreement where MVTC would be reimbursed some proportionate amount from other developers within an identified Benefit Area who benefit from Redlands Blvd. street improvements. For example, there is undeveloped property along the west side of Redlands Blvd. between Encelia and Dracaea. The developer of that property would likely be conditioned to build out this improvement if not already built. It would seem reasonable this developer would be required to contribute a proportionate share of the expense paid by MVTC for making the improvement.

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

As a Planning Commissioner for close to 10 years I have participated in the approval of most warehouse/logistic projects in this City. This includes voting yes for the World Logistics Center (WLC) despite living close to it. What WLC has going for it is a plan for buffering the impacts of its project from the existing residential and eliminated truck and employee traffic from Redlands Blvd. by having access from Theodore now WLC Parkway. Most other warehouse/logistic approvals in the City have been in areas where the existing underlying land use zoning allows for warehouse/logistic use, or the projects are located where there are existing non-residential land uses, and existing city approved truck routes. This project on two sides (Encelia and Redlands) is not located next to city approved truck routes. Rather, next to small residential single lane in each direction streets.

The proposed MVTC even as modified to eliminate traffic on and off Encelia Avenue, will create irreparable harm to the existing residential neighborhood. Residents bought homes in this area with a reasonable expectation City elected would respect and protect their investments by rejecting entitlement requests for incompatible land uses on adjacent property. Prior Planning Commissions and City Councils have done this in the past. For example, when Pro-Logis was developing warehouses along Eucalyptus east of the auto center, Pro-Logis responsibly agreed with area resident and city leadership to maintain a buffer of their proposed industrial/warehouse use to the existing residential and eliminated two buildings from their project.

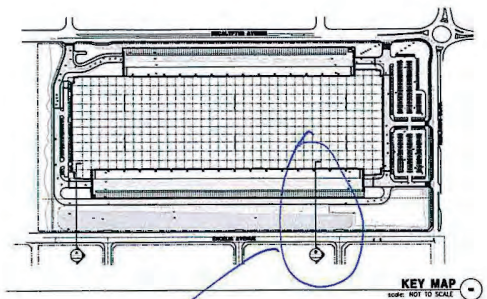
Saying no is hard but sometimes needs to be done. This is one of those times. The harm the proposed MVTC creates far outweighs the tax revenue increase this project will generate, a proposed park, and $500,000 cash contribution. There are approximately 2,800 acres of property already approved for warehouse/logistics for the World Logistics Center nearby and the existing neighborhood does not deserve having this incompatible use built right on top of it. A yes vote on the proposed MVTC benefits out-of-town developers who will enjoy profits at the expense of city residents.

Please do right by the approximate 1,000 citizens who have invested and live in the 250 +/- homes between Encelia and Cottonwood who pay taxes, shop, spend, and vote in Moreno Valley. Don't ruin a nice neighborhood. **VOTE NO UPHOLDING YOUR RECENTLY APPROVED GENERAL PLAN UPDATE AND YOUR PLANNING COMMISSIONS FINDING THE PROJECT IS NOT CONSISTENT WITH THE GENERAL PLAN.**

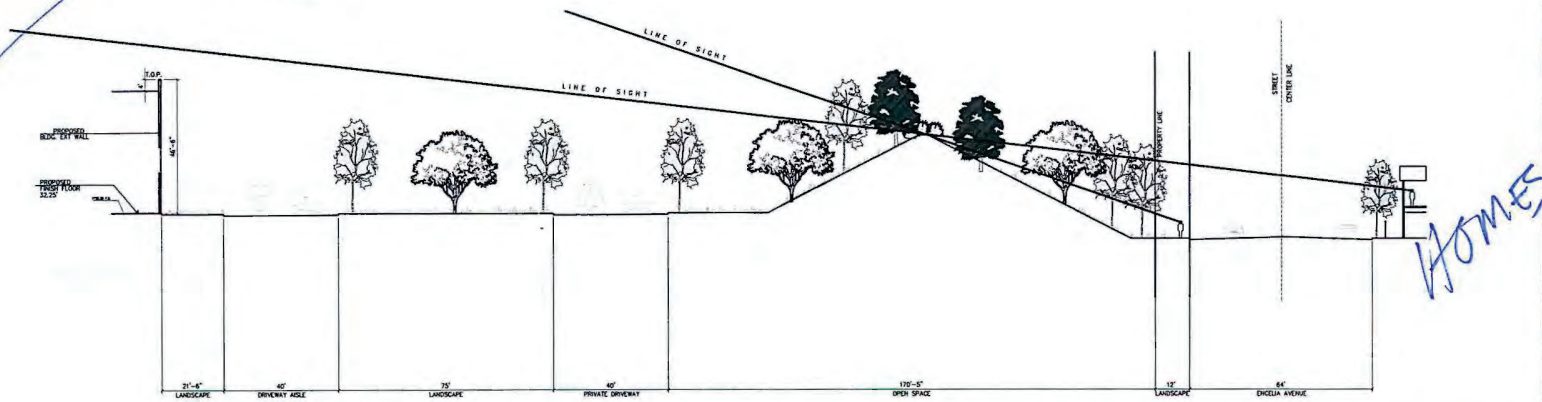
I apologize for the long letter but thank you for your time to read it as part of your considerations in coming to a decision. If you have any questions or would like to discuss, please feel free to contact me.

Jeff Sims
City of Moreno Valley Resident
Planning Commissioner – City of Moreno Valley

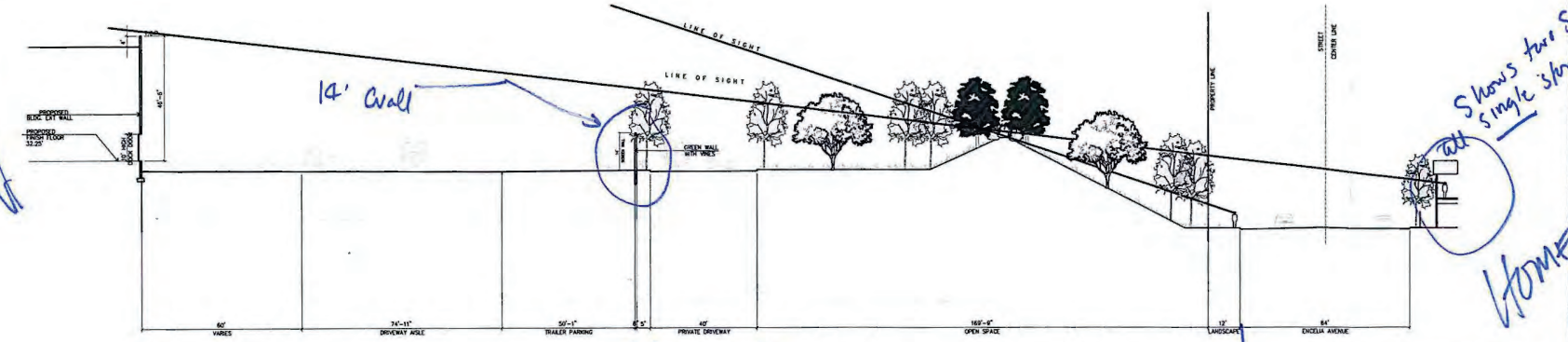
1. Cross-section along Encelia (Developer Plan DAB-A4.2)
2. MVTC overall site and landscape plan
3. Pages 225-251 of Public Review Draft - LAFCO City MSR and SOI Update dated March 29, 2022



KEY MAP



CROSS SECTION AT ENCELIA AVENUE (A)



CROSS SECTION AT ENCELIA AVENUE (B)

Parking + Docks

40' private Drive

unsecured Open Space
Who keeps people out??

HPA architecture

hpa, inc.
18831 bardeen avenue - ste. #100
irvine, ca
92612
tel: 949-863-1770
fax: 949-863-0851
email: hpa@hparchs.com

Owner:

HILLWOOD

901 Via Piemonte, Suite 175
Ontario, CA 91764

tel: (909) 382-0033
fax: (909) 382-0073

Project:

MORENO VALLEY TRADE CENTER

EUCALYPTUS AVE. AND REDLANDS BLVD.

Eucalyptus Avenue
Moreno Valley, CA 92551

Consultants:

Thienes Engineering
Hunter Landscape

Title: Site Sections

Project Number: 19137
Drawn by: JC
Date: 10/03/19
Revisions:

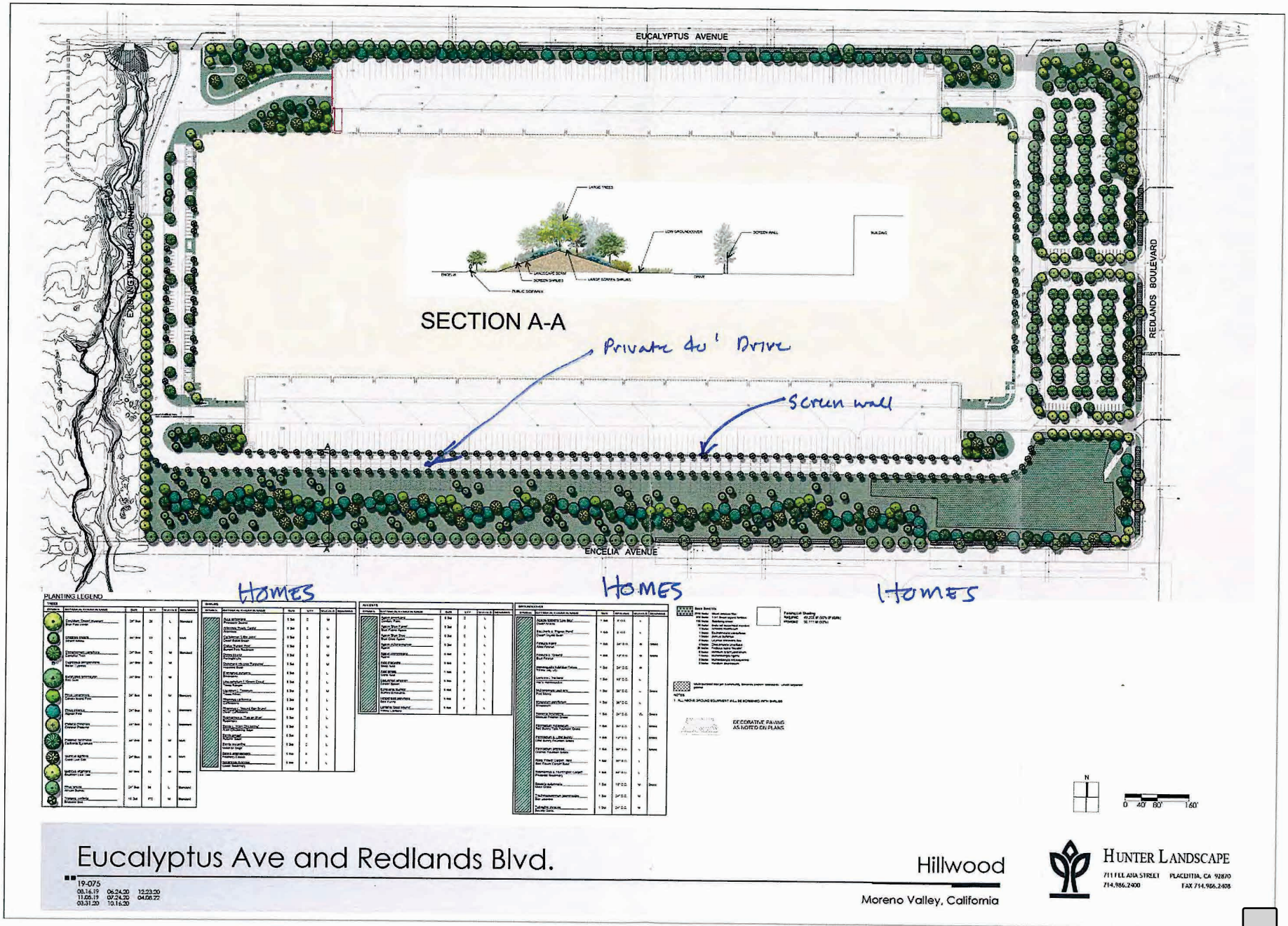
PEN19-0193

Sheet:

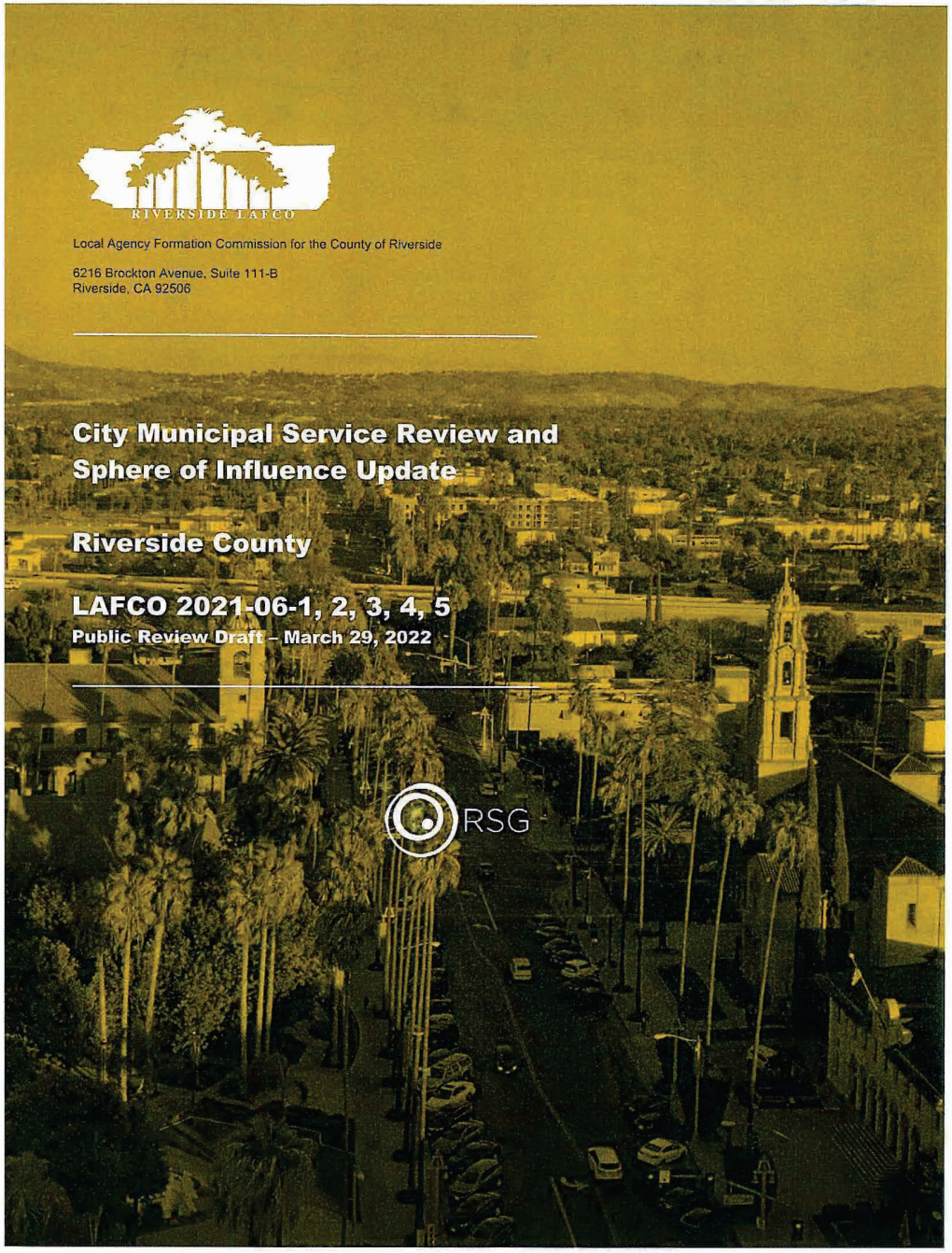
DAB A4.2

CAUTION: IF THIS SHEET IS NOT 24" X 36" IT IS A REDUCED PRINT

F.2.y


EUCALYPTUS AVENUE
REDLANDS BOULEVARD
ENCELIA AVENUE
SECTION A-A
Private dwy Drive
Screen wall
HOMES
HOMES
HOMES
PLANTING LEGEND
DECORATIVE PAVING AS NOTED ON PLANS
0 40' 80' 160'
Eucalyptus Ave and Redlands Blvd.
19-075
08.16.19 06.24.20 12.23.20
11.05.19 07.24.20 04.08.22
03.31.20 10.16.20
Hillwood
Moreno Valley, California
HUNTER LANDSCAPE
711 EL ATA STREET PLACENTIA, CA 92870
714.986.2400 FAX 714.986.2405

F.2.y


RIVERSIDE LAFCO
Local Agency Formation Commission for the County of Riverside
6216 Brockton Avenue, Suite 111-B
Riverside, CA 92506
City Municipal Service Review and Sphere of Influence Update
Riverside County
LAFCO 2021-06-1, 2, 3, 4, 5
Public Review Draft – March 29, 2022
RSG

CITY OF MORENO VALLEY

The City of Moreno Valley incorporated in 1984 as a general law city in the County's Western Region.[110] The City's northern, eastern, and the majority of the southern boundary is shared with unincorporated Riverside County territory. Most of the City's southern boundary is adjacent to the Lake Perris State Recreation Area. The City of Perris boundary is immediately south of a portion of Moreno Valley. The City's western edge is bound by the March Air Reserve Base, City of Riverside corporate boundary, and unincorporated territory. The City's incorporated boundary covers an area of 51.3 square miles and the City's SOI extends northwest and southeast to encompass an additional 15.5 square miles, for a combined 66.8 square miles.[111]

The City's demographic profile is presented in Figure 84.

Figure 84: Demographic Profile - Moreno Valley

Moreno Valley	City	SOI	County
Population as of 2020	208,838	150	2,442,304
Population as of 2010	193,365	105	2,189,641
Annual Pop. Growth Since 2010	0.77%	3.63%	1.10%
Housing Units	57,523	55	867,637
Persons / Housing Unit	3.63	2.73	2.81
Land Area (sq mi)	51.3	15.5	7,206.0
Persons / Square Mile	4,071	10	339
Median Household Income	$64,073	$93,293	$67,369
Projected Population in 2035	246,068		2,995,509
Annual Proj. Growth 2020-2035	1.10%		1.37%
Projected Population in 2045	266,814		3,251,705
Annual Proj. Growth 2020-2045	1.65%		1.93%

Sources: California Department of Finance, Southern California Association of Governments, US Census, ESRI Business Analyst Online (Growth rates are presented as annual growth rates)

[110] Source: City of Moreno Valley
[111] Source: Riverside LAFCO

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Moreno Valley's population grew slowly during the last decade, increasing at just a 0.77 percent annual growth rate to a total population of almost 209,000. Moreno Valley is the second-largest city in the County of Riverside. Moreno Valley has large households (3.63 persons per household) and a high population density (4,071 persons per square mile) when compared to the County averages (2.81 persons per household and 339 persons per square mile). The population projections over the next 15 to 25 years indicate that population growth will increase, but growth is not expected to keep pace with County-wide growth rates.

The City's SOI contains a population of just 150, spread across 55 households. The City's median household income is slightly lower than the County-wide average, while the median household income in the SOI is about 38 percent higher than the County-wide average.

The City's land use profile is disproportionately skewed towards industrial development, with almost 75 percent of the City's commercial square footage designed for industrial users. During the last decade, the City added over 9.3 million square feet of industrial space, representing about half of the City's commercial development. While this is a significant increase in square footage, a lot of the City's development can be attributed to retail projects. The City's housing inventory is concentrated in single-family housing, representing more than 80 percent of the City's units.

Aligned with the City's land use profile, several of the City's largest employers are distribution centers, including Amazon (7,500 employees), Ross Dress for Less/DD's (2,400 employees), Sketchers USA (1,200 employees), Harbor Freight Tools (788 employees), and Deckers Outdoor (700 employees). The remaining top ten employers include March Air Reserve Base (9,600

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

employees), Riverside University Health Systems Medical Center (3,400 employees), Moreno Valley Mall (1,500 employees), and Kaiser Permanent Community Hospital (1,457 employees).[112]

Moreno Valley's land use summary is presented in Figure 85.

Figure 85: Land Use Summary - Moreno Valley

Moreno Valley			County
Residential Units	Units	%	%
Single Family	46,378	80.6%	54.8%
Multifamily	9,781	17.0%	43.6%
Mobile Home	1,364	2.4%	1.6%
Total Units	57,523	100.0%	100.0%
New Units Since 2010	1,964		
Commercial	Gross SF		
Retail	8,080,993	20.9%	26.6%
Industrial	28,896,728	74.9%	61.8%
Office	1,512,415	3.9%	9.6%
Other	103,295	0.3%	2.0%
Total	38,593,431	100.0%	100.0%
New Commercial Since 2010	20,028,947		

Sources: California Department of Finance (2020) and Costar (Other includes hospitality, healthcare, specialty, sports and entertainment)

CURRENT SPHERE OF INFLUENCE, ISLANDS/POCKETS, AND DUCS

The City of Moreno Valley's SOI consists of three (3) noncontiguous areas, illustrated in Exhibit 12. The City's eastern SOI is the largest of the three (3) areas, stretching eastward into the hills along State Route 60 and southward along Gilman Springs to encompass the area known as Mystic Lake, which is a seasonal body of water. The City's northwestern SOI extends west to the City of Riverside's existing SOI in the hills north of State Route 60, in an area that is largely overlapping the Box Springs Mountain Reserve Park. The City's third and smallest SOI area

[112] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

extends south from the City's southern boundary adjacent to Lake Perris State Recreation Area, east of Davis Road.

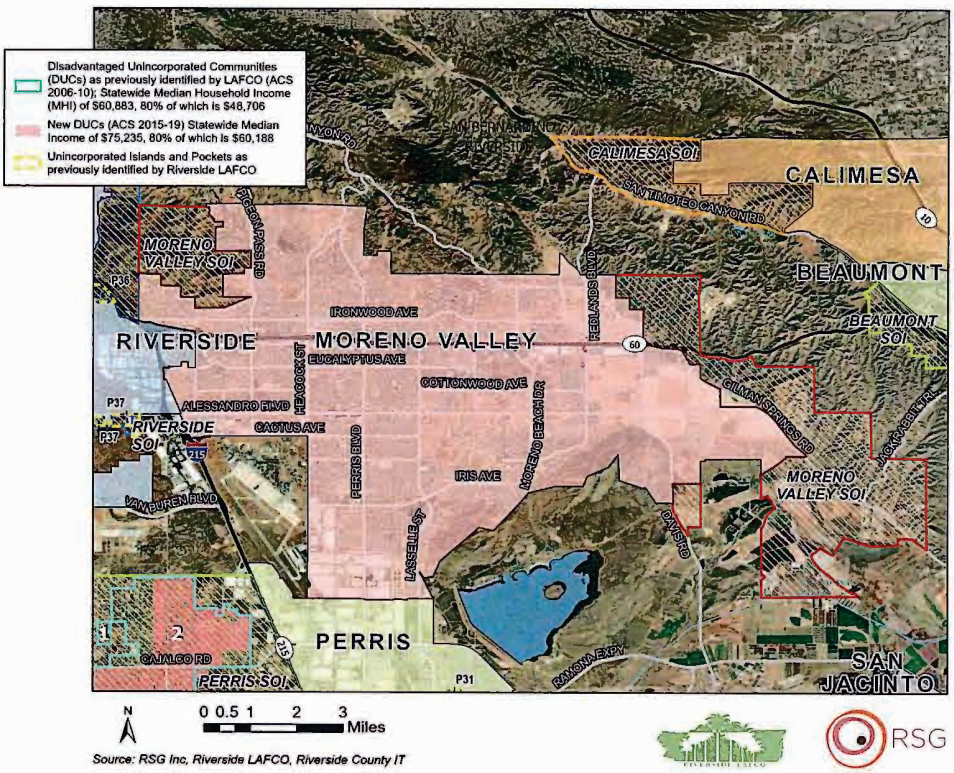
The SOI does not contain LAFCO-identified DUCs or unincorporated islands and pockets.

Moreno Valley's boundary was previously reconfirmed in the September 2006 Central Valleys, The Pass Area and Southwestern Riverside County MSR (LAFCO 2005-49-3&5; LAFCO 2005-48-5; LAFCO 2005-47-1&3) (the "2006 MSR").

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

City of Moreno Valley and Sphere of Influence



Source: RSG Inc, Riverside LAFCO, Riverside County IT

RSG

Exhibit 12: City and SOI Boundaries - Moreno Valley

City of Moreno Valley
City Municipal Service Review and Sphere of Influence Update
Riverside County

Public Review Draft – March 29, 2022

FORM OF GOVERNMENT AND STAFFING

The City of Moreno Valley is a "Council – Manager" form of government, with a City Council that includes five (5) members, including one Mayor elected at-large, and four (4) Councilmembers elected according to district boundaries. The Mayor serves a two (2) year term while Councilmembers serve four (4) year terms. The City Council appoints a City Manager, who serves as the head of the administrative branch of the City government.[113]

The City Council also serves as the Housing Authority, Successor Agency, Moreno Valley Community Services District, Public Financing Authority, and Public Facilities Financing Corporation. Several boards, commissions, committees, and councils carry out assignments as directed by the City Council, including the Accessibility Appeals Board, Environmental and Historical Preservation Board, Senior Citizens Advisory Board, Arts Commission, Library Commission, Planning Commission, Traffic Safety Commission, Utilities Commission, Moreno Valley Citizens Public Safety Committee, Parks Community Services and Trails Committee, and the Emerging Leaders Council.[114]

The City Manager reports directly to the City Council and oversees a staff of 375 full-time equivalent personnel.[115] The City's annual operating expenditures ranged from $118 to $150.3 million between 2016-17 2018-19.[116]

SERVICES PROVIDED

City staff provide the community with building and planning, housing, code enforcement, animal control, parks and recreation, landscape maintenance, streets and road maintenance, lighting, utilities, stormwater drainage, and innovation and technology services. The following section describes municipal services provided within Moreno Valley and identifies the service provider.

[113] Source: City of Moreno Valley
[114] Source: City of Moreno Valley
[115] Source: City of Moreno Valley, 2018-19 Comprehensive Annual Financial Report
[116] Source: California State Controller's Office, "Cities Financial Data"

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Figure 86 summarizes the municipal services provided within the Moreno Valley city limits by the City or by other service providers.

Figure 86: Service Provider Matrix - Moreno Valley

Public Service	Service Provider	City Department	County	Small Independent Special District	Large Independent Special District	Small Dependent Special District	Large Dependent Special District	Private Contractor	Franchise	Shared Service	Other
Law Enforcement	Sheriff		■								
Fire Protection	Fire/CalFire		■								
Emergency Medical	Fire/CalFire		■								
Building/Planning	Community Development	■									
Housing	Housing Authority	■									
Code Enforcement	Community Development	■									
Animal Control	Community Development	■									
Parks and Recreation	Parks and Community Services, CSD, Regional Parks	■				■	■				
Library	Library, Library System	■	■								
Museum	Historical Society							■			
Landscape Maintenance	Public Works, CSD, LLMD, & CFD	■				■					
Streets/Road Maintenance	Public Works, CSA	■					■				
Streetlights	Edgemont CSD, CSD, LLMD, & CFD				■	■					
Lighting	Public Works, CSD, LLMD, & CFD	■				■					
Utilities	Electric Utility, Edison, So Cal Gas	■							■		
Solid Waste	Waste Management								■		
Stormwater Drainage	Public Works, Flood Control & Water Conservation	■					■				
Innovation and Technology	Financial & Management Services, Spectrum, AT&T	■							■		
Airport	N/A										
Cemetery *	N/A										
Healthcare *	N/A										
Water *	Eastern Municipal Water District, Edgemont CSD				■						
Wastewater *	Edgemont Community Services District				■						

* Not included in this MSR

Government Services

General government services in the City of Moreno Valley are provided by the elected City Council, and appointed staff like the City Manager and City Clerk. The City Manager serves as the Chief Executive of the City and is responsible to the City Council for the efficient management of all City business including implementation of Council policies and programs, providing direction to departments that administer City programs and services, coordinating intergovernmental relations and legislative advocacy efforts, and administering the outsourcing agreements through which Public Safety services are provided. The City Clerk is responsible for the administration of all municipal elections, access to and management of City records, preparation of agendas, recording and maintenance of all Council actions, maintenance of the Municipal Code, and serves as the official custodian of the City seal.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Law Enforcement

Moreno Valley receives law enforcement services from the Riverside County Sheriff Department. The Sheriff provides general policing services including, investigations, special enforcement, school resources, traffic enforcement and patrols, community services, crime prevention, and the administration of the volunteer program and the Explorer youth program.

The 2006 MSR presented the following determination:

- Law enforcement services were being provided at a level below the City's standard of 1 sworn officer per 1,000 people.

According to City staff, the recently adopted General Plan identifies City policies for providing responsive, efficient, and effective law enforcement services that promote a high level of public safety. Furthermore, City staff noted that the City no longer has a policy specifying a number of sworn officers per 1,000 residents.

Fire Protection

Fire Protection services are provided by Riverside County Fire Department/CalFire in Moreno Valley. Since 1921, the Riverside County Fire Department has been in a contractual relationship with CalFire to provide wildland fire protection services. In 1946, the contract between CalFire and Riverside County Fire Department was expanded to include fire protection services. Services provided by Riverside County Fire Department/CalFire include fire protection and prevention, medical response, review of planning cases, review and inspections of construction and developments, fire and life safety inspections of state-regulated occupancies, information on ordinances and standards for construction, and information bulletins and standards for fire protection. Fire Stations 2, 6, 48, 58, 65, 91, and 99 are in the City.

The Riverside County Fire Department/CalFire provides fire protection services to 20 cities in Riverside County and the Rubidoux community services district. The Riverside County Fire Department/CalFire also responds to calls for service in seven (7) additional Riverside County cities and the Idyllwild Fire Protection District through mutual and automatic aid agreements.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Emergency Medical

Emergency medical services are provided by the Riverside County Fire Department/CalFire. Please refer to the previous section for more information on the Department.

Building/Planning and Housing (Community Development)

Building, planning, and housing services are provided by the City's Community Development Department through the Planning and Building and Safety Divisions. The Planning Division informs the planning commission, ensures new developments fulfill the City's strategic priorities, and ensures new development is in line with CEQA. The Building and Safety Division conducts plan reviews, issues permits, conducts field inspections, and coordinates permit approvals with City departments and outside agencies.

Code Enforcement

Code enforcement services are provided by the Community Development Department's Code and Neighborhood Services Division. The Division responds to citizen complaints, proactively enforces the municipal code, provides parking control services, and runs the abandoned vehicle abatement program.

Animal Control

Animal control is provided by the Animal Services Division of the Community Development Department. The Division provides humane animal services, sheltering, rabies control, stray animal control, licensing, and public education. A shelter operated by the Division is located in the City at 14041 Elsworth Street.

Parks and Recreation

Parks and recreation services are provided by three (3) entities: The City's Parks and Community Services Department, the Community Services District- Zone A, Community Facilities District No. 1, and the Riverside County Regional Parks and Open Space District. The Department provides

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

maintenance and development of parks, trails and recreational facilities, maintains open space, administers an array of recreational programs, and enforces park rules and regulations. The Community Services District, known also as Zone A, services parks in the City with the Parks and Community Services Department. The District primarily provides funding to the Department for parks and recreation services. The Community Facilities District No. 1 also provides funding to the Department, but funding is reserved for maintenance of facilities. The Riverside County Regional Parks and Open Space District operates the Box Spring Mountain Reserve in the City. The Reserve is located on 3,400 acres of land that overlooks the cities of Riverside and Moreno Valley. The entrance is located at 9699 Box Springs Mountain Road in Moreno Valley.

The 2006 MSR identified the following determinations:

- The City was providing parkland at a ratio that was below the City's standard and noted financing constraints that led to an increase in fee related recreational activities and a degradation of service provision.

According to City staff, the recently adopted General Plan identifies 671 acres of existing and planned parkland which could meet the parkland ratio within a 20-year period. City staff noted that the City also plans to evaluate parkland dedication fees and in-lieu parkland dedication fees to ensure that the City is adequately addressing the community need while maintaining regional competitiveness.

Library

The Moreno Valley Public Library provides library services to the City. The Library is owned and operated by the City. It has two (2) satellite locations in the Moreno Valley Mall and Iris Plaza. The Library provides users of all ages with reading materials in electronic and traditional formats, educational support for students, and literacy programs. The City's Community Services District provides funding for the operations of the Library.

The 2006 MSR presented the following determinations:

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

- The City's Library was too small to hold the City's entire inventory and the City had plans at the time to develop a larger facility.

The City has expanded library facilities to address this finding, adding two satellite libraries that provide library services throughout Moreno Valley. Museum

There is no museum in the City of Moreno Valley.

Landscape Maintenance

Landscape maintenance is provided by the City's Public Works Department through funding from the Community Services District, Landscape Maintenance District 2014-2, and several other special funding districts in the City. The Department provides general landscape maintenance services to public property and oversees any landscape maintenance contracts.

Streets/Road Maintenance

Streets and roads maintenance is provided by the Public Works Department. The Department's responsibilities include the coordination, maintenance, and operation of traffic facilities and roadways, sidewalk and street maintenance, and the management of City capital improvements.

The 2006 MSR identified the following determinations:

- The City's roads and intersections operating below the City's level of service standard.

City staff indicated that streets and roads were in fair to good shape.

Streetlights

The Moreno Valley Community Services District, Zone C Arterial Streetlights, the Lighting Maintenance District 2014-01, the Community Facilities District 2014-01, and the Edgemont Community Services District all provide funding for streetlight maintenance in various parts of the City. The Edgemont Community Services District provides streetlight maintenance services to several neighborhoods in the western part of the City. The District was formed in 1957 to cover

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

the Edgemont area of Riverside County which straddles both the cities of Riverside and Moreno Valley. The other districts provide funding that is used by the Moreno Valley Public Works Department to service the rest of the City.

Utilities (Gas, Electric)

Utilities are provided by the Moreno Valley Electric Utility ("MVU"), Southern California Edison ("SCE"), and the Southern California Gas Company ("SoCal Gas"). The MVU is the primary public electric utility in the City and is run by the Public Works Department. Created in 2001, the utility now serves around 6,600 residents. The traditional regional utilities SCE and Socal Gas both still serve some residents in the City. In Fiscal Year 2018-19 the MVU entered into a financing agreement through Bank of America to acquire the City's streetlights from SCE. According to City staff, the streetlights then underwent an LED retrofit.

Solid Waste

The City has a franchise agreement in place with Waste Management for solid waste collection services. Waste Management is a private solid waste disposal company provides solid waste disposal and recycling services to Moreno Valley residences. Waste Management is one of the largest solid waste companies in North America with more than 45,000 employees serving over 20 million residential, industrial, municipal, and commercial customers.

The 2006 MSR presented the following determinations:

- The City was not disposing of the required amount of solid waste.

City staff indicated that the City has implemented a number of innovative source reductions, recycling, composting, and reuse programs to help meet State diversion goals. The City's current diversion rate is 65 percent, which exceeds the current standard diversion rate of 50 percent. Furthermore, City staff noted that an amendment to the City's municipal code will require a diversion rate of 75 percent by 2025 as required by State law.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Storm Drainage

Storm drainage services are provided by the Public Works Department. The Department is responsible for engineering, designing, and overseeing the construction of capital improvements for flood and storm-water management, and the operation and maintenance of City storm drains.

County Service Area 152 provides funding for the management of the City's NPDES permit program, which is aimed at reducing pollution to underground water tables.

The 2006 MSR presented the following determinations:

- The City's storm water drainage is inadequate.

City staff did not indicate that storm water drainage was inadequate in the City.

Innovation and Technology

Innovation and technology services are provided by the Financial and Management Services Department. The Department manages the City's technology assets, improves hardware, software, and telecommunications, and provides IT support.

Airport

There is no public or private airport in the City of Moreno Valley.

Extraterritorial Services Provided

The City of Moreno Valley does not provide services outside of the City's boundaries. Government Code Section 56133 requires LAFCO approval for extension of services outside a sphere of influence in response to an existing or impending threat to public health or safety.

RECENT AND PLANNED MAJOR CAPITAL IMPROVEMENTS

The City prepares a Capital Improvement Plan that serves as a comprehensive planning document inclusive of revenues and expenditures for capital improvements within the City. The

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

City's CIP is adopted every other year and coordinates with the City's two-year budget cycle. The City plans to make improvements in regard to pavement rehabilitation, street and road improvements, interchange construction, bridge maintenance and construction, drainage improvements, lighting improvements, and community center renovation.

According to City staff, all projects identified above, except for the March Community Center Renovation, are moving forward and funded.

HOUSING NEEDS AND HOUSING ELEMENT REPORTING

The City of Moreno Valley submitted its 6th Cycle Draft Housing element to HCD on February 19, 2021. As of the date on this MSR, HCD had not completed the review of the City's Housing Element.[117] During the 5th Cycle, the City submitted Annual Progress Reports between 2014 and 2019, but failed to submit an Annual Progress Report in 2013.[118]

The City's 5th Cycle housing needs are presented in Figure 87.

Figure 87: 5th Cycle Housing Element Summary - Moreno Valley

Moreno Valley 5th Cycle Housing Needs	Very Low Income	Low Income	Moderate Income	Above Moderate Income
RHNA Allocation	1,500	993	1,112	2,564
Permitted Units	0	0	457	1,354
Allocation Surplus/(Shortage)	(1,500)	(993)	(655)	(1,210)

Source: HCD Annual Progress Report Permit Summary, October 6, 2020

The City permitted 457 moderate income housing units and 1,354 above-moderate income units during the 5th Cycle. The City did not permit any very low- or low-income housing units during the 5th Cycle, and the City fell short of meeting its RHNA allocation in all income categories. With a

[117] Source: California Department of Housing and Community Development, "Housing Element Implementation Status Tracker" updated June 28, 2019
[118] Source: California Department of Housing and Community Development, "Annual Progress Report Permit Summary," dated October 6, 2020.

F.2.y

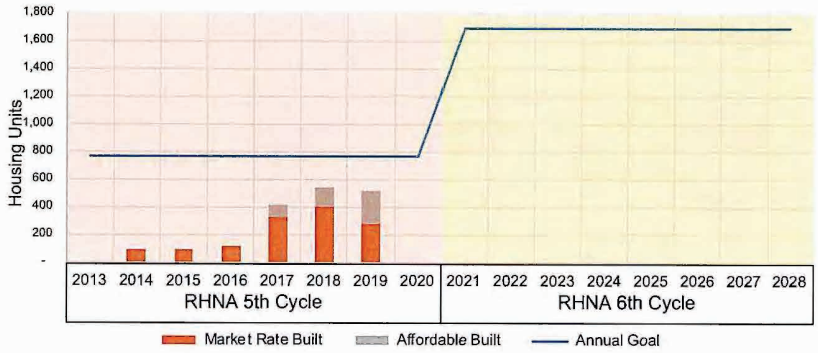
Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

shortage of 4,358 housing units, the City is not expected to meet its RHNA allocation in any income category.

The City's RHNA allocation increases by about 120 percent, or 7,427 units, to a total of 13,596 housing units for the 6th Cycle. In order to accomplish this, the City will need to permit 1,700 units every year during the eight (8) year cycle.

The City's 5th and 6th Cycle production goals and unit production is presented in Figure 88.

Figure 88: 5th and 6th Cycle RHNA Allocation and Production - Moreno Valley



Moreno Valley is one of 289 California jurisdictions that have not made sufficient progress toward either moderate-income RHNA unit production or failed to submit the latest (2019) Annual Progress Report. As a result, the City is subject to streamlined ministerial approval process for proposed housing developments with at least 10 percent affordable units. The streamlined ministerial approval process was introduced as part of Senate Bill 35 (Chapter 366, Statutes of 2017) in 2017.[119]

[119] Source: California Department of Housing and Community Development, "SB 35 Statewide Determination Summary"

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

FISCAL HEALTH

The City of Moreno Valley's fiscal health evaluation, including audit findings, revenue sources, expenditure categories, long-term obligations, reserves, and California State Auditor assessment is presented in the sections that follow. The City's net position is presented as annual revenues less expenditures for fiscal years 2016-17 through 2018-19 in Figure 89. The City recorded surpluses in each year between 2016-17 and 2018-19.

Figure 89: Net Position - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Total General Tax Revenues	$80,283,944	$95,664,565	$101,563,227
Other Tax Revenues	252,636	757,763	3,562
Other Revenues	43,623,150	58,823,573	69,378,685
Total Revenues	**124,159,730**	**155,245,901**	**170,945,474**
Total Operating Expenditures	102,604,217	132,608,840	132,343,618
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**117,944,142**	**150,346,468**	**148,856,763**
Net Position	**$6,215,588**	**$4,899,433**	**$22,088,711**

Operating Revenues

As illustrated in Figure 90, the City had total revenues that ranged from $124.2 million in 2016-17 to $170.9 million in 2018-19. Figure 90 outlines the City's revenue sources between 2016-17 and 2018-19.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Figure 90: Operating Revenue History - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Revenues			
Property Tax	$13,549,337	$19,681,234	$20,781,717
Sales Tax	22,613,602	22,899,957	25,928,638
Transient Occupancy Tax	1,852,584	2,344,159	2,433,358
Property Tax in-lieu of VLF	17,430,250	18,406,258	19,577,636
Franchise Tax	5,673,109	6,300,486	6,585,791
Business License Tax	2,832,064	2,956,966	3,046,854
Property Transfer Tax	719,514	767,591	833,082
Utility User Tax	15,613,484	15,629,102	15,483,806
Other Tax Revenues	-	6,678,812	6,892,345
Total General Tax Revenues	**80,283,944**	**95,664,565**	**101,563,227**
Transportation Tax	252,636	757,763	3,562
Parking Tax	-	-	-
Voter-Approved Taxes	-	-	-
Functional Tax Revenues	-	-	-
Total Tax Revenues	**80,536,580**	**96,422,328**	**101,566,789**
Charges for Services	6,582,057	11,502,017	10,078,587
Special Benefit Assessments	686,981	800,544	732,737
Use of Money	3,040,329	6,153,214	9,724,869
Fines and Forfeitures	195,970	727,887	800,140
Licenses and Permits	2,950,348	3,234,411	3,638,808
Intergovernmental	14,637,872	18,156,624	21,488,264
Other Taxes in-Lieu	-	-	-
Miscellaneous Revenues	15,529,593	18,248,876	22,915,280
Total Revenues	**$124,159,730**	**$155,245,901**	**$170,945,474**

Source: California State Controller's Office

The City's general tax revenues, which were $101.6 million in 2018-19, account for 59.4 percent of the City's total revenues. The City has a diverse revenue base, with sales tax ($25.9 million), property tax ($20.8 million), property tax in-lieu of VLF (19.6 million), and utility user tax ($15.5 million) representing the largest revenue sources and collectively representing 80.5 percent of total general tax revenues.

When compared to all other Riverside County and California cities, the City's tax revenues are proportionate, except for utility user tax, which not all communities have adopted. Although sales tax is the City's largest general tax revenue source, accounting for 25.5 percent of the City's general tax revenues, it is proportionally lower than the average sales tax revenue for all

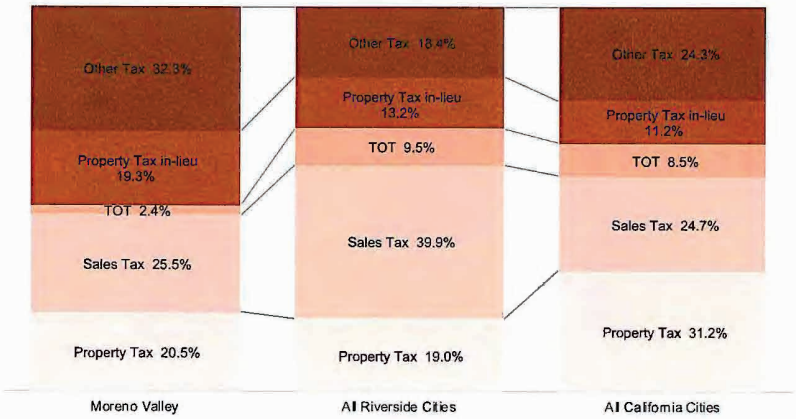
F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Riverside County cities (39.9 percent), and more aligned with the average sales tax revenue for all California cities (24.7 percent). Because sales tax can be susceptible to economic shifts, such as the results of the COVID-19 pandemic, it may be advantageous for the City to rely less on sales tax revenues.

The City's general tax revenues are compared to all Riverside County and California cities in Figure 91.

Figure 91: General Tax Revenue Comparison - Moreno Valley



Aside from tax revenues, City's largest non-tax revenue sources are miscellaneous revenues ($22.9 million) and intergovernmental revenues ($21.5 million). The City's major revenue sources are described in greater detail in the sections that follow.

Sales Tax

Sales tax revenues are the City's single-largest tax revenue, accounting for 25.5 percent of general tax revenues or $25.9 million in 2018-19. Sales tax revenues are derived from one percent of gross receipts from the sale of tangible personal property sold in Moreno Valley. Sales tax revenues increased by 7.1 percent annually between 2016-17 and 2018-19.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Property Tax and Property Tax in-lieu of Motor Vehicle License Fees

Property tax and property tax in-lieu of VLF were the City's second and third largest tax revenues in 2018-19, accounting for 20.5 and 19.3 percent of general tax revenues respectively.

In 2018-19, the City collected almost $20.8 million in property tax. Property tax is assessed on land, improvements, and personal property, which amounted to about $15.6 billion in 2018-19. Approximately $4.1 billion in assessed value was derived from land value and $11.8 billion from improvements.[120] The City's property tax collections were approximately 15.6 percent of all property tax collected in Moreno Valley, which is one of the highest tax rates for a city in Riverside County.

The City's property tax revenues increased from about $13.5 million in 2016-17 to $20.8 million in 2018-19, 23.8 percent annual growth rate. While property assessed valuations can only increase by a maximum of 2 percent annually, property tax revenues can grow at a much faster pace as a result of new development adding new taxable value to the tax roll.

The City of Moreno Valley and County of Riverside have a mutually adopted Master Property Tax Exchange Agreement in place, which was adopted in 1985.[121]

Property tax in-lieu of VLF accounted for 19.3 percent of the City's general tax revenue in 2018-19, equivalent to $19.6 million. Property tax in-lieu of VLF replaced vehicle license fees as a revenue source for cities in 2004, and increases based on assessed valuation growth in the jurisdiction.

Utility User Tax

A fourth significant revenue source for the City is utility user tax revenues. The City assesses utility user taxes on telephone use at a rate of 5.75 percent, inclusive of intrastate residential and

[120] Source: California City Finance, "Assessed Valuation of Property by City"
[121] Source: Riverside LAFCO

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

commercial calls, interstate residential and commercial calls, international residential and commercial calls, and all wireless residential and commercial calls. Additionally, the City taxes business and residential electricity, business and residential natural gas, business and residential cable television, business and residential water, and business and residential sewer fees at a rate of 6 percent.[122] In 2018-19, utility user tax revenues amounted to $15.5 million, or about 15.2 percent of general tax revenues. Over the three (3) year period from 2016-17 to 2018-19, the City's utility user tax revenues were relatively flat, decreasing by a little more than $100,000 over that period.

Miscellaneous Revenues

The City's largest non-tax revenue source is classified as miscellaneous revenues. Miscellaneous revenues amounted to $22.9 million in 2018-19, or about 13.4 percent of all revenues. For the City, the primary sources of miscellaneous revenues includes development impact fees ($9.6 million in 2018-19), contributions from nongovernmental sources ($1.9 million), and other unclassified miscellaneous revenues ($11.3 million). According to City staff, the City is expected to begin preparation of a development impact fee study in 2021.

Intergovernmental Revenues

Intergovernmental revenues are collected from County, State, and Federal sources and amounted to $21.5 million in 2018-19 for the City. The City's intergovernmental revenues are comprised of gas tax revenues ($8.0 million), community development block grants ($1.8 million) and several other State ($8.0 million) and Federal ($3.3 million) government sources. Intergovernmental revenues increased from about $14.6 million in 2016-17 to $21.5 million in 2018-19, a 21.2 percent annual growth rate.

[122] Source: California City Finance, "Utility User Tax by City" updated in February 2021

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Operating Expenditures

The City's operating expenditures ranged from $117.9 to $150.3 million between 2016-17 and 2018-19. The City's annual operating expenditures, categorized by use, are presented in Figure 92.

Figure 92: Operating Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
Operating Expenditures			
Salaries and Wages	$31,577,627	$45,685,127	$21,936,258
Employee Benefits	9,756,381	12,363,241	13,222,377
Materials and Supplies	4,749,004	2,974,431	3,675,063
Contract Services	56,321,004	57,844,737	83,315,931
Other Operating Expenditures	200,201	13,741,304	10,193,989
Total Operating Expenditures	**102,604,217**	**132,608,840**	**132,343,618**
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

Because the City contracts with the County of Riverside for law enforcement and fire protection services, it is not surprising that the City's largest expenditure category is contract services, amounting to $83.3 million in 2018-19. Between 2016-17 and 2018-19, the City's contract services expenditures increased by 21.6 percent annually – over the same time frame all other operating expenditures increased by just 2.9 percent. In 2018-19, the City's contract service expenditures amounted to 56 percent of total expenditures.

The City's largest current expenditure category is associated with public safety, amounting to $63.3 million in 2018-19. Public safety expenditures grew at just 3.5 percent annually between 2016-17 and 2018-19 while total current expenditures increased by 12.3 percent annually. Most of the growth occurred in transportation, community development, and culture and leisure expenditure categories. The City's current expenditures by function between 2016-17 and 2018-19 are presented in Figure 93.

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Figure 93: Current Expenditures - Moreno Valley

Moreno Valley	2016-17	2017-18	2018-19
General Government	$17,323,318	$18,982,549	$19,669,398
Public Safety	59,152,472	63,992,529	63,305,321
Transportation	10,976,980	18,441,708	19,286,980
Community Development	6,843,958	12,717,384	11,128,467
Health	-	-	-
Culture and Leisure	8,307,489	18,474,670	18,953,452
Public Utilities	-	-	-
Debt Service	4,326,445	4,319,000	4,309,456
Capital Outlay	11,013,480	13,418,628	12,203,689
Total Current Expenditures	**$117,944,142**	**$150,346,468**	**$148,856,763**

Source: California State Controller's Office

In most contract cities around Riverside County, the public safety costs are rapidly increasing at unsustainable paces – that is not the case in Moreno Valley. The fastest growing expenditure categories for the City were culture and leisure (51 percent annual increase between 2016-17), transportation (32.6 percent annual growth), and community development ($27.5 percent annual growth). These three (3) categories represented $23.2 million in expenditure increases between 2016-17 and 2018-19.

Culture and leisure expenditures are entirely associated with parks and recreation costs (almost $19.0 million in 2018-19) while transportation expenditures include costs for streets, highways and storm drains ($18.1 million), and trees and landscaping ($1.1 million). Community development expenditures are associated with planning ($3.2 million), construction and engineering regulation ($373,000), and other unclassified community development expenditures ($7.5 million). Some of these costs are recovered via charges for services, and according to City staff, the City's fees are balanced and consistent with all fee studies. City staff also indicated that the City planned to prepare a new development impact fee study in 2021 because the previous fee study was prepared nine (9) years ago.

Reserve Fund Balance

The City has several reserve fund policies. The City's cash flow reserve aims to preserve 17 to 35 percent of General Fund expenditures. The Emergency fund policy requires 12 percent of

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

General Fund expenditures and the Rainy Day Reserve policy requires an additional 10 percent of General Fund expenditures to be retained. The City's 2020-21 budget indicates that the City will retain $39.9 million in reserves and is in compliance with the City's reserve policies.[123]

Pension and OPEB Obligations

The City of Moreno Valley's pension and OPEB obligations are outlined in Figure 94.

Figure 94: Pension and OPEB Obligations - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Net Pension Liability/(Surplus)	$72,410,028	$68,092,267	$72,896,273
Total OPEB Liability/(Surplus)	7,099,335	6,453,487	8,175,011
Total Benefit Liability/(Surplus)	$79,509,363	$74,545,754	$81,071,284

Source: 2017-18, 2018-19 and 2019-20 ACFR

Qualifying employees are eligible to participate in the City's Miscellaneous Pension Plan. The City does not have public safety employees and therefore does not offer a Safety Plan. The City also provides OPEB policies, which are defined benefit postemployment healthcare plans for retired persons, and benefits are extended to surviving spouses. As illustrated in Figure 94, the City has about $81.1 million in combined pension and OPEB liabilities.

The City established an irrevocable trust fund in June 2009 to begin prefunding the City's unfunded OPEB liability.

The City's pension indicators, which include the City's employer contribution compared to the actuarially determined contribution, the City's total covered payroll, and the contribution rate as a percent of covered payroll, are presented in Figure 95.

[123] Source: City of Moreno Valley, 2019-20 Budget

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

Figure 95: Pension indicators - Moreno Valley

Moreno Valley	2017-18	2018-19	2019-20
Actuarially Determined Contribution	$6,385,610	$7,094,031	$7,972,616
Employer Contribution	6,385,610	7,094,031	7,972,616
Covered Payroll	$20,860,026	$21,783,847	$24,175,227
Employer Contribution Rate	30.6%	32.6%	33.0%

Source: 2017-18, 2018-19 and 2019-20 ACFR

The City made employer contributions equivalent to the actuarially determined contribution between 2016-17 and 2019-20. During this time frame, the City's covered payroll increased at an annual rate of about 7.7 percent. The City's employer contribution rate, which ranged from 30.6 to 33.0 percent between 2016-17 and 2019-20, is about average for the County of Riverside, which ranged from 26 to 32 percent over the same period.

Annual Audit Findings

RSG reviewed the City's Annual Audits from 2017-18 through 2019-20. The Annual Audits did not present any findings and the auditor stated that the financial statements present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City. Additionally, the City's Annual Audits between 2017-18 and 2019-20 were awarded Certificates of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association.

California State Auditor Fiscal Health Evaluation

The City of Moreno Valley ranked 281 out of 471 jurisdictions and received an overall risk rating of low. The City is considered higher risk than 190 peer cities in California, or about 40 percent of cities. The City received low risk ratings on six (6) indicators, including liquidity, general fund reserves, pension obligations, pension costs, future pension costs, and OPEB obligations. Two

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

(2) indicators were given moderate risk ratings, including debt burden and revenue trends. Two (2) indicators scored high risk ratings, including pension funding and OPEB funding.[124]

MSR DETERMINATIONS

Requisite CKH determinations for the City of Moreno Valley are presented by topic below:

1. **Population, Growth, and Housing**

   Moreno Valley grew at a slower rate over the last decade, when compared to the County and most other incorporated jurisdictions in the Western Riverside Region. The Moreno Valley population is expected to grow at a rate that is slightly lower than the County-wide growth rate over the next 15 to 25 years. The City did not build sufficient housing units to meet its 5th Cycle RHNA allocation of 6,169 units, falling short by 4,358 units, and the City's 6th Cycle RHNA allocation increased by 120 percent to a total of 13,596 housing units.

2. **Disadvantaged Unincorporated Communities in SOI**

   The City's SOI does not contain any DUCs.

3. **Present and Planned Capacity of Facilities**

   Many of the City's deficiencies identified in the 2006 MSR did not resurface during RSG's research, data collection, and city interview stages.

4. **Financial Ability to Provide Services**

   The City's general tax revenue sources have increased to more than $101.6 million in 2018-19. The City has identified issues with its pension and OPEB liabilities and began to take

[124] Source: California State Auditor, Financial Data for Fiscal Year 2019-20

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

corrective action as early as 2008 with the introduction of an irrevocable trust fund. The City has maintained healthy reserve funds.

5. **Opportunities for Shared Facilities**

   No opportunities for shared facilities were identified.

6. **Accountability for Community Service Needs**

   The City Council is elected according to district boundaries. The City's plethora of boards, committees, and commissions indicates that the City residents are engaged with City government. The City is active across at least five (5) social media platforms and maintains an email list. The City also operates a television channel and has a dedicated media team.

7. **Any Other Matter Related to Effective or Efficient Service Delivery as Required by Commission Policy.**

   The City did not identify any other matters related to effective or efficient service delivery as required by Commission Policy.

SOI RECOMMENDATIONS

RSG's recommendations related to the Moreno Valley SOI are presented by topic below. RSG is not recommending any changes to Moreno Valley's SOI.

1. **Present and Planned Land Uses**

   Large portions of Moreno Valley's SOI overlaps difficult-to-develop and protected land and are unlikely to be developed in the foreseeable future. The southern and southeastern portions of the unincorporated Moreno Valley SOI present the best opportunities for future growth and development.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

F.2.y

2. **Present and Probable Need for Public Facility and Services**

   City staff indicated that the Moreno Valley SOI has adequate public facilities and services.

3. **Present Capacity of Public Facilities**

   City staff indicated that public facilities in the Moreno Valley SOI are sufficient to meet the community's needs.

4. **Social or Economic Communities of Interest**

   The City did not identify any social or economic communities of interest in the Moreno Valley SOI.

5. **Disadvantaged Unincorporated Community Present and Planned Need for Facilities and Services**

   The Moreno Valley SOI does not contain any DUCs.

F.2.y

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: Elena Baca-Santa Cruz; Edward A. Delgado; Dr. Yxstian A. Gutierrez; David Marquez; Ulises Cabrera; Sean P. Kelleher
Subject: Polluted Air Impacts on Young Kids - PEN19-0191 & PEN21-0079
Date: Thursday, December 1, 2022 7:54:36 AM

Warning: External Email – Watch for Email Red Flags!

Dear Council Members,

Tuesday evening, December 6th, you will be considering two warehouse projects that are being proposed in poor locations because of their proximity to homes and the residents in them. The youngest of these residents can be irreputable harmed by the air pollution generated by diesel truck exhaust. The article below, from the Washing Post titled Young kids who breathe polluted air can fall behind in school, discusses the correlation between air pollution and reduced learning and the disproportionate impact on those in poor areas. There have been so many studies documenting the health impacts form the proximity of warehouse activities next to people (sensitive receptors) one would expect elected officials and planning staff would insist on avoiding the potential for this impact.

Both the **Moreno Valley Trade Center** and the **Moreno Valley Business Center** are abutting residential neighborhood. The Moreno Valley Business Center is especially close, being directly connected to the backyards of an existing Edgemont neighborhood - one of the poorest in the city. As elected officials it is your responsibility to do all that can be done to protect the residents (your constituents) from all development impacts that could burden their lives. The land where these projects are proposed could be used for less harmful development and denying these projects is the right thing to do so this can occur. It is the right thing to do and it will gain you greater community respect.

Thanks for the consideration,
Tom Thornsley

PS: Links provided below to the story and study:

Young kids who breathe polluted air can fall behind in school, study finds (msn.com)

Young kids who breathe polluted air in high-poverty areas can fall behind in school, study finds - The Washington Post

Concentrated poverty, ambient air pollution, and child cognitive development | Science Advances

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

The Washington Post

Young kids who breathe polluted air can fall behind in school, study finds

Story by Amudalat Ajasa • Nov 30, 2022 11:00 AM

Young children living in neighborhoods with high rates of poverty are more likely to be exposed to many different air pollutants, and that can harm their development during early childhood, according to a study published Wednesday. The children's increased exposure to air toxins during infancy can reduce reading and math abilities and cause them to fall behind — for some, the effect is equivalent to losing an entire month of elementary school.

While there are other issues that can affect school preparedness for early-age children, the study found that exposure to air pollutants, when isolated, accounted for a third of the impact when compared with other concerns.

It has long been known that poorer communities are disproportionately exposed to air pollution than more-affluent communities, but the study, published in Science Advances, dives deeper into some impacts, exploring the intersections of neighborhoods' socioeconomic status and the effects on early-childhood cognitive development, while looking at disparities in air quality.

In the study, researchers show the ways cognitive gaps are formed as early as 6 months and are entrenched by age 2, before children even start school, said lead researcher Geoffrey Wodtke, associate director of the University of Chicago's Stone Center for Research on Wealth Inequality and Mobility.

"The study is showing that children born into high-poverty neighborhoods are more likely to be exposed to many neurotoxic air pollutants, and that those differences in turn are linked with inequalities in early-childhood development, specifically reading and math abilities measured around the time of school entry," Wodtke told The Washington Post.

Researchers used data from the U.S. Department of Education's early-childhood longitudinal study birth cohorts, which assessed 10,000 children born in or around 2001, tracking them through the time they entered kindergarten. The children were from across the United States.

Researchers analyzed the socioeconomic status and air pollution concentrations of the children's neighborhoods. Scientists then followed the children until they were about 4 years old, when they were assessed for early reading and math skills.

"What's important is we provide some initial and relatively strong evidence that being born into a poor neighborhood harms early cognitive development, and this is at least partly due to exposure to neurotoxic air pollution," Wodtke said in a statement.

Some pediatric environmental health scientists were not surprised by these findings, pointing to

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

previous literature and research on early exposure to air pollutants and the relationship with lower cognitive test scores. But the study provides a steppingstone to understanding how air pollution affects other factors that may influence children's healthy neurodevelopment, said one pediatrician and professor who has studied intersections.

"This is really important because we have significant health inequities of all kinds for children in the U.S. that tracks with poverty," said Catherine Karr, an environmental epidemiologist and pediatric environmental medicine specialist at the University of Washington.

"Clean air is part of the prescription for every child to meet their full health potential, including cognitive health," added Karr, who was not involved in the study.

In the study, scientists differentiate between the types of exposures. Poorer communities were more exposed to particulate matter and traffic-related pollution like nitrogen dioxide and carbon monoxide — exposures that appeared to have more of an impact on reading and math abilities during early-childhood development. But more-affluent communities were more likely to be exposed to ozone air pollutants.

Wodtke said the study does not pinpoint any leading air pollutants that are associated with high-poverty neighborhoods and lower test scores. Instead, it finds many air toxins have a weak association with both.

Experts pointed to mounting evidence that indicates that postnatal exposure to air pollution is associated with deficiencies in cognitive test scores. It has also been linked to attention-deficit/hyperactivity disorder (ADHD) symptoms and externalizing behavior problems in pediatric populations.

Emerging evidence also finds that exposure to fine particulate matter is correlated with reduced cortical thickness and thinner gray matter in the brain, which may influence information processing, learning and memory. Previous research has found that exposure to higher concentrations of small-particle air pollution is associated with poorer child behavioral functioning and cognitive performance.

Anjum Hajat, an associate professor in the department of epidemiology at the University of Washington, said the study "provides further evidence of the links between poverty, air pollution and health."

"We have known for some time that living in high-poverty neighborhoods can be bad for your health, so being able to understand why that is allows us to better consider ways to intervene," said Hajat, who was not part of the study.

Recent research has continued to show that children exposed to elevated levels of air pollution may be more likely to have poor academic skills in early adolescence, including in spelling, reading comprehension and math, according to studies conducted by Columbia University.

Hajat said while the link between air pollution and poverty is "pretty well established," as are links between neighborhood poverty and other health effects, "this study links these different strands of research to give us one possible solution to improving child development."

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Dio Perez
To: Gabriel Diaz
Subject: Fw:
Date: Thursday, December 1, 2022 8:14:01 AM

Warning: External Email – Watch for Email Red Flags!

Please vote No on the Sport Park that is proposed on Ironwood/Redland Blv
That park will light up our rural are and bring crime to our quiet low crime area.
Please VOTE No. Also Vote NO on the Truck Stop in Redland Blv.
Thank You
Dio Perez

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Dio Perez
To: Sean P. Kelleher
Subject: Fw:
Date: Thursday, December 1, 2022 8:23:37 AM

Warning: External Email – Watch for Email Red Flags!

Please vote No on the Sport Park and the Truck Stop that is proposed on Redland Blv
That Park and Truck Stop will light up our rural are and bring crime , prostitution to our quiet low crime area.
Thank You
Dio Perez

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Gabriel Diaz
To: Sean P. Kelleher; Julia Descoteaux
Subject: FW: No more Whs
Date: Monday, December 5, 2022 3:41:00 PM

Hello Sean and Julia,

I received this email below.

Thank you,

Gabriel

Gabriel Diaz
Associate Planner
Community Development
City of Moreno Valley
p: 951.413.3226 | e: gabrield@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

NOTICE
THIS MESSAGE IS INTENDED ONLY FOR THE PERSON OR ENTITY TO WHICH IT IS ADDRESSED.
THIS MESSAGE MAY CONTAIN INFORMATION THAT IS PRIVILEGED OR CONFIDENTIAL, AND MAY BE EXEMPT OR PROHIBITED FROM PUBLIC DISCLOSURE.
IF YOU RECEIVE THIS MESSAGE IN ERROR, DO NOT FORWARD OR OTHERWISE SHARE THIS MESSAGE.
INSTEAD, IMMEDIATELY NOTIFY THE SENDER AND OUR OFFICE OF THE ERROR.

-----Original Message-----
From: Dio Perez <supremepest@msn.com>
Sent: Saturday, December 3, 2022 7:08 AM
To: Gabriel Diaz <gabrield@moval.org>
Subject: No more Whs

Warning: External Email – Watch for Email Red Flags!

Dear Gabriel
Please no more warehouse in the Alessander and Day st.
This big Bldg are ugly to the city and is only going to bring more graffiti for the citizens to look at or big concrete view instead of Mnt view. This big warehouse are ruining the view that once we had especially as we drive thru the 60Fwy.
One more thing NO on the Truck Stop and Sport Field Park on Redland Blv.
Thank you so much.
Dio Perez

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher; Manuel A. Mancha
Subject: Fwd: Warehouse projects
Date: Monday, February 27, 2023 9:56:08 AM

Get Outlook for iOS

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: fisway@roadrunner.com <fisway@roadrunner.com>
Sent: Sunday, February 26, 2023 11:43:40 AM
To: Julia Descoteaux <juliad@moval.org>; City Clerk <cityclerk@moval.org>; Edward A. Delgado <edd@moval.org>; David Marquez <davidma@moval.org>
Subject: Warehouse projects

Warning: External Email – Watch for Email Red Flags!

Hello,

My family and myself are concerned citizens of Moreno Valley, As long time residences, since 1999, we are very worried about the proposed warehouse projects for the East end of our city. We moved here from Riverside to get away from all the traffic and congestion and to enjoy the living in a rural area with houses and animals. The proposed project off of Redlands and Eucalyptus will destroy our way of life and make everyday chores difficult, not to mention the side affects of all the 18 wheelers in the area. I realize that most if not all of the people associated with this proposal do not live anywhere near the area and are only looking at "revenue" for the City. This is no reason to change the landscape of our Eastern portion of this city.

Moreno Valley doesn't need anymore warehouses near family homes. What we do need are more large parcel homes to attract good solid residences that actually care for our community. There are much better locations that already have the infrastructure to handle the massive amounts of trucks.

Respectfully submitted,
Lloyd Allen Young
11051 Quincy St.
Rancho Belago, CA 92555
951-314-8145

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher; Manuel A. Mancha
Subject: Fwd: Stop warehousing near homes
Date: Monday, February 27, 2023 9:56:40 AM

Get Outlook for iOS

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Stefanie <stefanieastokes@gmail.com>
Sent: Sunday, February 26, 2023 2:14:38 PM
To: Julia Descoteaux <juliad@moval.org>; City Clerk <cityclerk@moval.org>
Subject: Stop warehousing near homes

Warning: External Email – Watch for Email Red Flags!

Hello,
I'm writing to request and plead for no more warehouses to be built on Redlands Blvd in Moreno Valley 92555 zip code. I've lived in this zip code since 1989 when this area was beautiful, filled with wildlife and much better air quality. I purchased my current home in 2013 which is right next to Adam Halls Nursery on a half acre lot. I have children who I worry about growing up in this area now because of how much growth and pollution there has been. We enjoy going on walks in nearby fields and appreciating what little space is left that hasn't been developed.
Please move these projects to places where families and homes do not exist. Enough is enough
Thank you for your time in reading this and I hope it makes some kind of difference.
Stefanie Stokes

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: maoae2020@yahoo.com
To: Sean P. Kelleher
Subject: Moreno Valley Trade Center
Date: Friday, March 3, 2023 9:24:54 AM

Warning: External Email – Watch for Email Red Flags!

Dear Mr. Kelleher,

I am forwarding a copy of my letter to the Mayor, below. I feel you would benefit from reading it as well as the people I originally sent it to.

John Blackburn
14285 Begonia Lane
Moreno Valley, CA. 92555
Maoae2020@yahoo.com

From: maoae2020@yahoo.com <maoae2020@yahoo.com>
Sent: Friday, March 3, 2023 9:20 AM
To: 'Mayor@moval.org' <Mayor@moval.org>
Cc: 'elenab@moval.org' <elenab@moval.org>; 'edd@moval.org' <edd@moval.org>; 'davidma@moval.org' <davidma@moval.org>; 'cheylyndab@moval.org' <cheylyndab@moval.org>
Subject: Moreno Valley Trade Center

The Honorable Ulises Cabrera
Mayor, City of Moreno Valley, CA.
03 March 2023

Dear Mayor Cabrera,

I am writing regarding the proposed Moreno Valley Trade Center. I live in the relatively new housing tract at the corner of Cactus Ave. and Redlands Blvd. I am aware of the Moreno Valley's ambitions to become a logistics center for the Inland Empire, similar to what the city of Perris is trying to do.

In the case of Perris, I see a complete failure. Perris has become a nightmare of trucks, warehouses, and random new neighborhoods. The roads are being destroyed by the weight and number of vehicles using them. Traffic is horrible as a result of these monsters. These trucks are being driven through housing as if they were the family Camry. I lived in Perris, and now I avoid it at all costs.

In Moreno Valley I see a similar situation arising. A mishmash of new housing construction with no apparent coordination or oversight as far as design language or master planning. There are three now housing sites within one mile of my neighborhood alone. All from different builders and none have anything in common with each other. I also see a monster logistics center arising the opposite direction around the Sketchers warehouse. There is no way I want hundreds or trucks spewing diesel exhaust and breaking down the surrounding roads. The 60 freeway is already massively overloaded,

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

and the 60-215 interchange is now in a 24 hour a day rush hour. What will happen when you add more trucks?

More warehouses are not panacea for creating jobs. I would stipulate that by creating hundreds of minimum wage warehouse jobs you are actually doing the city a disservice by removing the incentive for higher-paying jobs to come to Moreno Valley. Karma/B-ON is a good start, but that is the tip of the iceberg. You need medical device manufacturers (Johnson & Johnson is in Irvine, Abbott is in Temecula, Cardinal Health is in San Diego), software companies (Google, Apple). Incentivize start-ups to make MoVal their homes. Think outside the box. A warehouse wasteland lacking qualified employees will not accomplish this.

I urge you, and all Council Members and Planners, to rethink this strategy and change direction. All cities must evolve, but don't become a dinosaur.

Sincerely,

John Blackburn
14285 Begonia Lane
Moreno Valley, CA. 92555

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher; Manuel A. Mancha
Cc: Catherine Lin
Subject: FW: Warehouse
Date: Wednesday, March 8, 2023 2:22:57 PM

Sean and Manny,

Please see below.

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: C Tom <4tomboys@gmail.com>
Sent: Sunday, March 5, 2023 7:56 AM
To: Julia Descoteaux <juliad@moval.org>
Subject: Warehouse

Warning: External Email – Watch for Email Red Flags!

Good Morning Ms. Descoteaux,

I have been a resident of Moreno Valley in the 92555 and 92553 area for over 20 years now. We have seen a myriad of changes, most for the better.

It is too much to ask of us to live next door to a giant warehouse. We have children and we just want to feel safe in our homes. Living directly adjacent to a warehouse, be it the Moreno Trade Center or a Pilot truck stop or some other warehouse, does not induce a feeling of safety. Each of us just wants to feel safe and secure in our homes.

I had planned to live out the rest of my life in my lovely home and now I'm not so sure I want to now.

There was a reason why the city planners had originally designated areas as residential. To change them to commercial to accommodate warehouses is egregious.

A park as a proposed trade-off is not really a trade-off considering that it will require tax payers to maintain it. So the warehouse builds us a park so we can pay taxes on it for the rest of our lives.

I wonder how many people would buy a home in Moreno Valley if the city put that in their welcome to Moreno Valley video. "Buy a $500,000 home and pay $11,000 every year in property tax and you too could live across the street from a mega warehouse!"

Not my vision of a beautiful, well-planned out city, but I'm left to assume it's yours and my only recourse is to move.

Always hopeful,
Cryscynthia Tom

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher; Manuel A. Mancha; Catherine Lin
Subject: FW: Warehouse Impacts
Date: Wednesday, March 8, 2023 7:07:21 PM

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Ron Alguire <ralguire@roadrunner.com>
Sent: Sunday, March 5, 2023 4:00 PM
To: Julia Descoteaux <juliad@moval.org>; Edward A. Delgado <edd@moval.org>
Cc: City Clerk <cityclerk@moval.org>; opinions@scng.com; bookwurm5@aol.com
Subject: Warehouse Impacts

Warning: External Email – Watch for Email Red Flags!

Team

The proliferation of warehouses in Moreno Valley has reached the tipping point where the health and quality of life of your constituents are being negatively impacted. Multiple Southern California cities are placing moratoriums on warehouse activity and we should be doing the same. I took this picture from my car at 11:30 am on the eastbound 60 coming into Moreno Valley on a Wednesday. Mr. Delgado, I personally spoke to you during your campaign and you stated you didn't take a penny from Iddo Benzeevi and you would not let the Northeast side lose its rural density or become another Ontario or Fontana.

I have concerns for my children and grandchildren and all families in this area the will take the brunt of this irresponsible management of our city who seems to continually ignore the planning commission and resident concerns. I don't want a "tradeoff" sports park built where families will not be able to breath to enjoy it with major warehouses and full truck stops being built just feet away from residential homes.

I fervently oppose industrial zoning and warehouses next to residential communities and in general the over-saturation of warehouses in our East end of the city and hope you would support and defend the people you represent.

Thanks for your attention to this matter

Respectfully

Ron Alguire
11353 Ladd Ave
Moreno Valley, CA
951 242-8310

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher
Subject: FW: Warehouse projects
Date: Wednesday, March 8, 2023 8:09:39 AM

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: fisway@roadrunner.com <fisway@roadrunner.com>
Sent: Sunday, February 26, 2023 11:44 AM
To: Julia Descoteaux <juliad@moval.org>; City Clerk <cityclerk@moval.org>; Edward A. Delgado <edd@moval.org>; David Marquez <davidma@moval.org>
Subject: Warehouse projects

Warning: External Email – Watch for Email Red Flags!

Hello,

My family and myself are concerned citizens of Moreno Valley, As long time residences, since 1999, we are very worried about the proposed warehouse projects for the East end of our city. We moved here from Riverside to get away from all the traffic and congestion and to enjoy the living in a rural area with houses and animals. The proposed project off of Redlands and Eucalyptus will destroy our way of life and make everyday chores difficult, not to mention the side affects of all the 18 wheelers in the area. I realize that most if not all of the people associated with this proposal do not live anywhere near the area and are only looking at "revenue" for the City. This is no reason to change the landscape of our Eastern portion of this city.

Moreno Valley doesn't need anymore warehouses near family homes. What we do need are more large parcel homes to attract good solid residences that actually care for our community. There are much better locations that already have the infrastructure to handle the massive amounts of trucks.

Respectfully submitted,
Lloyd Allen Young
11051 Quincy St.
Rancho Belago, CA 92555
951-314-8145

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Julia Descoteaux
To: Sean P. Kelleher
Subject: FW: Stop warehousing near homes
Date: Wednesday, March 8, 2023 8:10:00 AM

Julia Descoteaux
Senior Planner
Community Development
City of Moreno Valley
p: 951.413.3209 | e: juliad@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

-----Original Message-----
From: Stefanie <stefanieastokes@gmail.com>
Sent: Sunday, February 26, 2023 2:15 PM
To: Julia Descoteaux <juliad@moval.org>; City Clerk <cityclerk@moval.org>
Subject: Stop warehousing near homes

Warning: External Email – Watch for Email Red Flags!

Hello,
I'm writing to request and plead for no more warehouses to be built on Redlands Blvd in Moreno Valley 92555 zip code. I've lived in this zip code since 1989 when this area was beautiful, filled with wildlife and much better air quality. I purchased my current home in 2013 which is right next to Adam Halls Nursery on a half acre lot. I have children who I worry about growing up in this area now because of how much growth and pollution there has been. We enjoy going on walks in nearby fields and appreciating what little space is left that hasn't been developed.
Please move these projects to places where families and homes do not exist. Enough is enough
Thank you for your time in reading this and I hope it makes some kind of difference.
Stefanie Stokes

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Jane Halstead
To: Sean P. Kelleher
Cc: Julia Descoteaux
Subject: FW: Moreno Valley Trade Center
Date: Monday, April 10, 2023 10:44:08 AM

For the public record. Thank you,

Jane Halstead
Manager of the Office of Mayor and City Council / City Clerk
City Clerk's Office
City of Moreno Valley
p: 951.413.3010 | e: janeh@moval.org w: www.moval.org
14177 Frederick St., Moreno Valley, CA, 92553

From: Jane Halstead
Sent: Monday, April 10, 2023 9:56 AM
Cc: Mike Lee <mikel@moval.org>; Brian Mohan <brianm@moval.org>; Michael Lloyd, P.E. <michaell@moval.org>
Subject: FW: Moreno Valley Trade Center

For your information.

From: C Tom <4tomboys@gmail.com>
Sent: Monday, April 10, 2023 8:50 AM
To: City Clerk's Dept_DG <dept_cityclerk@moval.org>
Subject: Moreno Valley Trade Center

Warning: External Email – Watch for Email Red Flags!

Good morning,

My heartfelt thank you for your service to our city.

However I have to say, I am not thrilled with the council's decision to put a distribution center so close to my house in my nice quiet neighborhood.

Zone 92555 is your highest income bracket with big beautiful homes on large lots. I love my house. I can't imagine someone paying $700,000 for my house and $9000 in property tax to live next door to a warehouse. I know I wouldn't.

Crys Tom,
resident 92555, Valley Springs Homes

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: William Landa
To: Moreno Valley Mayor
Cc: Gabriel Diaz; Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center
Date: Monday, April 10, 2023 5:17:50 PM

Warning: External Email – Watch for Email Red Flags!

Mayor Ulises Cabrera,

I am a resident and employee of Riverside County; I live on the March JPA and I work as an ICU nurse at Riverside University Health System. My wife and I are raising three young children aged 4, 2, and 1 years old here in Moreno Valley. As a father and a healthcare professional, I am concerned about the impact of the rapid expansion of logistics centers in the area. I am writing to you specifically about the proposed Moreno Valley Trade Center between Quincy St. and Redlands boulevard.

The Moreno Valley Trade Center (MVTC) is just another development in the unending destruction to the people, land, and air of this area. The MVTC project will cause more pollution and decrease air quality. The environmental plan itself says that long term decrease in air quality from NOx and greenhouse gas emission cannot be fully mitigated. These emissions are linked to pulmonary, cardiovascular, and oncological disorders. As an ICU nurse I have seen first hand the devastation that pulmonary diseases such as asthma, lung cancer, and COPD can cause. I have been witness to the aftermath of young people who suffer anoxic brain injuries from these conditions. As a father of young children I have fear and anxiety of the health effects caused by air pollution and traffic caused by these logistics centers. I must weigh staying in the community and raising my children here or leaving for areas with cleaner air and water.

Choosing to allow projects like this to move forward may create new short term jobs and economic growth. However, these jobs are often low paying and subject to replacement through automation. The economic growth is limited by physical warehouse space. The detriment to the communities' health is not limited, and will affect generations of residents. Please consider alternatives to these warehouses. As elected officials, please serve and protect the health of the community.

Regards,
William Landa
(661) 202-0831
wisaiahlanda@gmail.com

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: George Hague
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Moreno Valley Trade Center comments
Date: Monday, April 10, 2023 5:34:48 PM

Warning: External Email – Watch for Email Red Flags!

Good afternoon City Council members, April 10, 2023

The 1,26 million sq ft Moreno Valley Trade Center (MVTC) significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

o **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.

o **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOX) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* **would be significant and unavoidable on both a direct and cumulatively-considerable basis.**

o **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOX emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to **NOX emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.**

o **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related **GHG emissions would exceed** the applicable SCAQMD significance threshold for GHG emissions and **would result in a cumulatively-considerable impact to the environment**." (page 5-1 in MVTC Final EIR)

The above awful health impacting pollution near family homes could not be eliminated by the MVTC and so they are telling you to hold your nose and accept a sports park that is next to Redlands Blvd north of SR-60 which is a

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

diesel truck route — again impacting the health of children breathing in diesel pollution deeply during the playing of sports.

Sincerey,

George Hague
P.S. The 40 million sq ft World Logistic Center warehouse project with its 13,000 daily diesel truck trips is beginning its grading later this year. We do not need more warehouses and the unions will have plenty of work for years to come.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From:	PAUL BOLASKY
To:	Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Martinez; Cheylynda Barnard; City Manager"s Office_DG; City Clerk"s Dept_DG
Subject:	I DO NOT!!!!Support Moreno Valley Trade Center
Date:	Monday, April 10, 2023 5:41:02 PM

Warning: External Email – Watch for Email Red Flags!

I am writing as I am NOT in support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley more smog from trucks/cars and make the roads worse and freeways horrible. It already takes way to long to use the freeways going though Moreno Valley.

Please Join me in NOT continuing support for the Moreno Valley Trade Center.

Thank you

Sent from my iPhone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From:	Debbie Walsh
To:	Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Cheylynda Barnard; Gabriel Diaz; David Martinez; Sean P. Kelleher; City Clerk"s Dept_DG
Subject:	MV Warehouse Project, GPA PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193
Date:	Monday, April 10, 2023 8:55:53 PM
Attachments:	MVtradeCenterletterApril11.pdf

Warning: External Email – Watch for Email Red Flags!

Hi Everyone,

Please find the attached letter regarding the Moreno Valley Warehouse Project.

RAMV is in opposition to this massive warehouse directly next to homes. Not only is this a health hazard to the community, it is a safety risk to the entire neighborhood.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

April 11, 2023

Rural Association of Mead Valley (RAMV)
PO Box 2244
Perris, CA 92572

Moreno Valley City Council
Attn: Gabriel Diaz, Associate Planner
Community Development Department
14177 Frederick Street
Moreno Valley, CA 92553

RE: Moreno Valley Trade Center Project including Final Environmental Impact Report (SCH No 20210039038), GPA PEN19-0191, Change of Zone PEN19-0192, Plot Plan PEN19-0193, and Tentative parcel Map 37836.

Honorable Council Members:

The General Mills Warehouse in Perris had a very large explosion on July 6, 2021 from their commercial sized propane tanks. A recently built warehouse and yet serious safety violations occurred. If this explosion took place inside the building there would have been serious consequences. The explosion could be felt and heard for over 5 miles away waking up residents past Nuevo Ave. Three large propane tanks exploded and caught fire.

PERRIS (LLN) - On Tuesday night, July 06, 2021, Cal Fire / Riverside County Fire along with AMR and the Riverside County Sheriff's Department responded to reports of an explosion at a large warehouse. The explosion was reported around 10:00pm in the 4100 block of Indian

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Avenue at the General Mills warehouse. According to Cal Fire / Riverside County Fire, firefighters responded to numerous reports of an explosion at a distribution center. Upon arrival, three propane tanks were off gassing and involved with fire. One person suffered moderate burn injuries and was transported by ground to a local hospital.

This massive warehouse over 1.5 million sq. ft. is directly next to homes and is an example of why warehouses "must" have a 1000 foot buffer between homes and warehouses. A buffer "must" be provided between property lines of the home and warehouse not measured from dock doors to residential structures.

New warehouses are not as safe as most people think and when they catch fire it is very difficult to put them out. Equipment from a number of agencies need to be brought in. How many ladder trucks does the City of Moreno Valley have to put out a massive warehouse fire? How long will it take to acquire additional ladder trucks?

Another example is the Redlands Amazon Warehouse along the I-215 Freeway is a Prime example of why this warehouse SHOULD NOT BE APPROVED.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

A massive fire broke out Friday morning, June 5 at a distribution center on West Lugonia Avenue in Redlands which shuttered part of the 10 Freeway. (Photo courtesy of the Redlands Fire Department)

This recently built state of the art Redlands warehouse burned to the ground just two years ago. It was 600,000 square feet along the I-10 freeway. Operated by Amazon, this recently built warehouse caught on fire and burned to the ground quickly. Those driving along the freeway could feel the heat from the fire.

The Redlands warehouse was 600,000 sq. ft. and 45 feet in height. The Proposed warehouse is 1,328,853 sq. ft. in size and at least 100 feet in height.

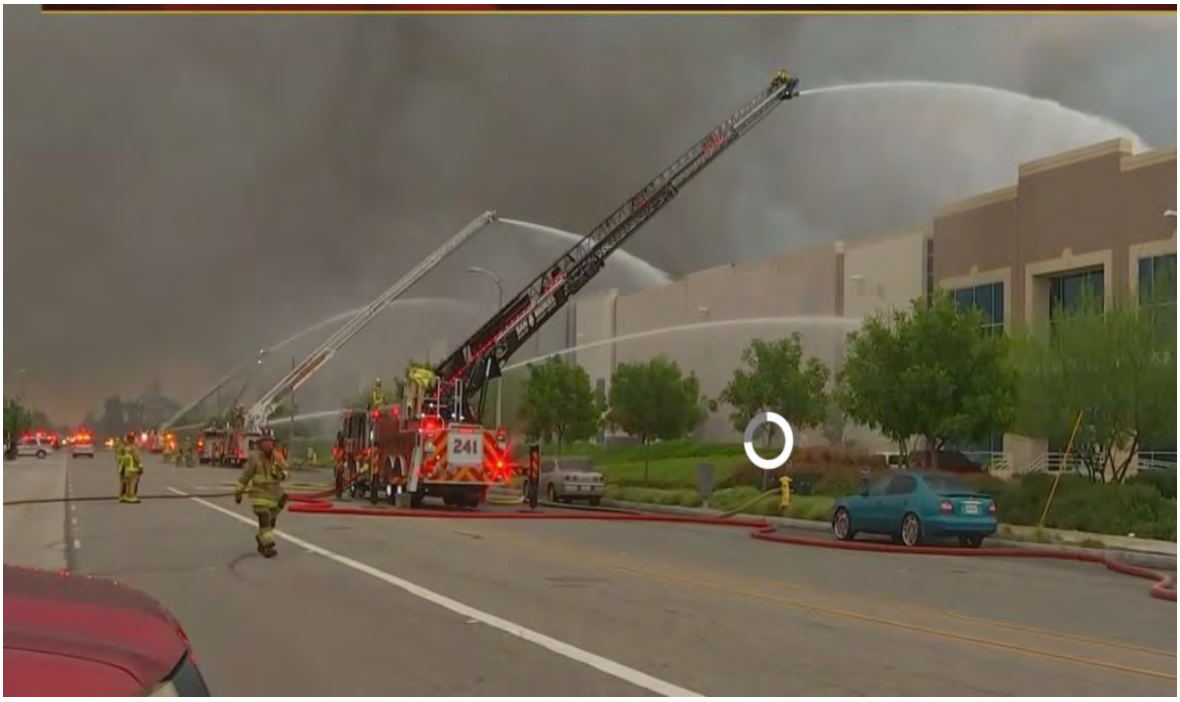
Even though this recently constructed warehouse had the state of the art sprinkler system, it went up in flames quickly and was completely destroyed according to the Redlands Daily news.

There were about 100 people working inside when the fire was reported about 5:30 a.m., and they all got out safely, city spokesman Carl Baker said.

"It went up really fast, and the whole building was involved," Baker said. He described the damage as a total loss. The damage was estimated at "hundreds of millions of dollars," Baker said.

One focus of the investigation will be why what Baker called "a state-of-the-art" sprinkler system failed to limit the fire's spread. "Obviously, the suppression system didn't work as intended," he said.
Redlands Daily News Article

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)



Redlands City does not have the equipment necessary to fight this type of warehouse. A large number of agencies from other cities and counties were brought in with ladder trucks to fight this Redlands City fire.

Will the fire trucks be tall enough to put water on top of a building 100 feet or more? That is much taller than the 45-foot warehouse that burned down in Redlands. Will there be enough ladder trucks to fight this type of fire with a building 100 feet tall or more? Will there be enough of a setback from the residential neighborhoods if the walls over 100 feet tall collapse during a fire?

How does the City of Moreno Valley plan to fight a fire if one were to break out if this massive warehouse were to be built? The project is located just 118 feet away the nearest family homes.

The Rural Association of Mead Valley is opposed to the Moreno Valley Trade Center Project for this and the following reasons. This Project is for a proposed 1,328,853 square foot Industrial warehouse building up to 100 feet in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay. The change in the Project Site's Land Use Designation would result in a total increase of approximately 80.04-acres of the Business Park (BP) General Plan Land Use Designation and a corresponding reduction of approximately 80.04-acres of the Residential 2 (R2) General Plan Land Use Designation.

1) a General Plan Amendment (PEN19-0191) to amend the General Plan Land Use Designation of the Project Site from Residential 2 (R2) to Business Park (BP); 2) a Change of Zone (PEN19-0192) to amend the City's Zoning Atlas to rezone the Project Site from Residential Agriculture 2 (RA2) to Light Industrial (LI) and remove the Primary Animal Keeping Overlay (PAKO) district; 3) Tentative Parcel Map

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

(PEN19-0234) to merge 11 parcels into 1 parcel; and 4) a Plot Plan (PEN19-0193) for an approximately 1,328,853 square foot Warehouse/Distribution Building. The Project Site is located south of Eucalyptus Avenue, north of Encelia Avenue, west of Quincy Street and west or Redlands Boulevard comprising Assessor Parcel Nos. 488-340-002 through 012.

The Project requires a General Plan Amendment and Change of Zone from Single Family Residential land with animal keeping, a rural land use, to Industrial Zoning. This massive Industrial Project is not compatible with the surrounding residential neighborhood. The General Plan that was just updated includes the Project site as Residential housing. No indications were made during the General Plan update that this area would be changed in the near future from residential to industrial land uses. The MVTC is inconsistent with the recently approved 2040 General Plan which points out that industrial is incompatible with residential zoned areas. Policy LCC.3-2 directs the City to use "development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another". The 2040 General Plan approved in June also requires the city to screen and buffer nonresidential projects to protect adjacent residential property when necessary to mitigate noise, glare and other adverse effects on adjacent lands.

The World Logistics Center and numerous other massive logistics warehouses are set to open nearby this Project location. This Project will add to the tens of thousands of additional truck trips approved on the already gridlocked I-60 Freeway. The unrealistic analysis of job creation assumes that there is a need for additional warehouse workers. The facts are that the current logistics and e-commerce warehouses cannot fill their positions. Where will these tens of thousands of additional workers come from? The best use of this land will be for single-family homes.

If the Project is constructed and used as an e-commerce fulfillment center the amount of vehicle trips is projected to be more than 5,000 vehicles per day. The MVTC's plan as a warehouse is to allow the southern entrance of the project to allow 1,000's of vehicles to access Encelia Street.

The project is located 118 feet away the nearest family homes. Building height 100 feet or more. It is very difficult to put out a fire for warehouses 44' tall. What equipment is available to put out a fire for a 100' warehouse structure?

This Project is for a proposed 1,328,853 square foot Industrial warehouse **building up to 100 feet** in height on a 72.5-acre site and adjacent to existing single-family homes within a rural animal keeping overlay.

Moreno Valley Municipal Code
9.05.040 Industrial site development standards.

A. General Requirements.

B. Special Site Development Standards.
1. When any industrial district abuts a property in any residential district, a

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

minimum building setback equal to the building height, but not less than twenty (20) feet shall be required from such residential district. Further, the then (10) feet of such setback nearest the district boundary line shall be landscaped.

9. In the LI district, industrial and warehouse, structures greater than fifty thousand (50,000) square feet in building area shall be separated from any residential district as determined by an air quality and noise impact analysis. The minimum separation distance for such uses shall be two hundred fifty (250) feet between the residential district and the truck court or loading area.

The developer does not have a tenant for the building.
The Project is proposed to be built under speculation.
The developer has the option of developing this Project as a fulfillment/e-commerce center or logistics warehouse.

The following significant and unavoidable environmental impacts have been identified in the Final EIR and will require mitigation but cannot be mitigated to a level of insignificance: 1) Aesthetics: Substantial Adverse Effect on a Scenic Vista; 2) Air 2 Quality: Air Quality Management Plan Conflict; 3) Air Quality: Criteria Pollutant Emissions; and 4) Greenhouse Gas Emissions: GHG Emissions Generation. Details of these significant unavoidable adverse impacts are discussed in the Final EIR and are summarized, or were otherwise provided in Section 5.3, *Environmental Effects Which Remain Significant and Unavoidable After Mitigation and Findings*, in the Statement of Facts and Findings. (Page 11).

Moreno Valley is one of the areas designates as a Disadvantage Community under SB 535. Adding thousands of additional logistics trucks to this community will greatly impact the health of over 200,000 residents living in your community.

The Environmental Justice Element is now required by the State to be a part of all General Plans. The City must “minimize any potential health risks” of new development on adjacent sensitive receptors and “designated truck routes that avoid sensitive land uses” (Policies EJ.1-3 and EJ. 1-9). The City must create a substantial buffer between homes and the warehouse. Screening must be installed along the southern and western boundaries of the Project. All truck parking and docks must be located on the north side and east side of the Project away from residential neighborhoods.

Although the Project has a number of entrances most warehouses use just one driveway for trucks to enter and exit, thereby reducing staffing to one gate. The Project does not have sufficient room at any of the entrances to prevent trucks from backing up onto Eucalyptus Ave.

The Project must include a substantial amount of solar power, especially if used as an e-commerce business. The current power grid is not sufficient to produce enough electricity for the current customers. The drain on the power grid during summer months produces frequent brown outs throughout Southern California.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

A large warehouse in the City of Perris recently had a large explosion from a large propane tank. This warehouse is next to residential homes. The blast from the explosion could be seen and heard from miles away. No propane tanks should be installed and used on warehouse sites. All forklifts, Goats, and equipment should be electric powered.

The Project is located in an area with the worst smog in the nation.

This Project will increase greenhouse gas levels that are already impacting Communities in Western Riverside County. Mead Valley is also a disadvantaged community. The impacts warehouses in Moreno Valley and Perris are having negatively impacts to the entire region. The I-215 Freeway is congested for most of the day. The I-60 Freeway is congested with thousands of trucks. This backs up traffic throughout the region. Trucks are now using residential streets to avoid the congested freeways. Cajalco Road is backed up bumper to bumper during the day. Trucks are using Van Buren, Alessandro and Cajalco to get to the I-91 to get to the Ports. Our freeways cannot add tens of thousands of additional trucks and cars from any new warehouses without severe gridlock to our freeways.

5.1 SIGNIFICANT ENVIRONMENTAL EFFECTS THAT CANNOT BE AVOIDED IF THE PROJECT IS IMPLEMENTED

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

• **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.

• **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOX) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.

•**Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOX emissions during long-term operation of the Project would remain above the applicable

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the SCAB. Therefore, Project operational-related impacts due to NOX emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

• **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

RAMV is opposed to the **Moreno Valley Trade Center Project** that will impact the entire region. We cannot afford to turn anymore of our residential zoned areas into Industrial zoned areas. Our freeways are already at capacity, our air quality is already the worse in the nation, and our local roads are already being destroyed by truck traffic. Please consider all of the impacts that this Project will bring to not only Moreno Valley, but the entire region.

I urge the City Council to follow the Planning Commission's recommendation and deny this Project.

Sincerely,

Debbie Walsh

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: William Landa
To: Edward A. Delgado
Cc: City Clerk
Subject: Moreno Valley Trade Center
Date: Wednesday, April 12, 2023 8:10:44 AM

Warning: External Email – Watch for Email Red Flags!

Dear Edward A. Delgado,

I am a resident and employee of Riverside County; I live on the March JPA and I work as an ICU nurse at Riverside University Health System. My wife and I are raising three young children aged 4, 2, and 1 years old here in Moreno Valley. As a father and a healthcare professional, I am concerned about the impact of the rapid expansion of logistics centers in the area. I am writing to you specifically about the proposed Moreno Valley Trade Center between Quincy St. and Redlands boulevard.

The Moreno Valley Trade Center (MVTC) is just another development in the unending destruction to the people, land, and air of this area. The MVTC project will cause more pollution and decrease air quality. The environmental plan itself says that long term decrease in air quality from NOx and greenhouse gas emission cannot be fully mitigated. These emissions are linked to pulmonary, cardiovascular, and oncological disorders. As an ICU nurse I have seen first hand the devastation that pulmonary diseases such as asthma, lung cancer, and COPD can cause. I have been witness to the aftermath of young people who suffer anoxic brain injuries from these conditions. As a father of young children I have fear and anxiety of the health effects caused by air pollution and traffic caused by these logistics centers. I must weigh staying in the community and raising my children here or leaving for areas with cleaner air and water.

Choosing to allow projects like this to move forward may create new short term jobs and economic growth. However, these jobs are often low paying and subject to replacement through automation. The economic growth is limited by physical warehouse space. The detriment to the communities' health is not limited, and will affect generations of residents. Please consider alternatives to these warehouses. As an elected official, please serve and protect the health of the community.

Regards,
William Landa
(661) 202-0831
wisaiahlanda@gmail.com

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: William Landa
To: David Marquez
Cc: City Clerk
Subject: Moreno Valley Trace Center
Date: Wednesday, April 12, 2023 8:12:20 AM

Warning: External Email – Watch for Email Red Flags!

Dear David Marquez,

I am a resident and employee of Riverside County; I live on the March JPA and I work as an ICU nurse at Riverside University Health System. My wife and I are raising three young children aged 4, 2, and 1 years old here in Moreno Valley. As a father and a healthcare professional, I am concerned about the impact of the rapid expansion of logistics centers in the area. I am writing to you specifically about the proposed Moreno Valley Trade Center between Quincy St. and Redlands boulevard.

The Moreno Valley Trade Center (MVTC) is just another development in the unending destruction to the people, land, and air of this area. The MVTC project will cause more pollution and decrease air quality. The environmental plan itself says that long term decrease in air quality from NOx and greenhouse gas emission cannot be fully mitigated. These emissions are linked to pulmonary, cardiovascular, and oncological disorders. As an ICU nurse I have seen first hand the devastation that pulmonary diseases such as asthma, lung cancer, and COPD can cause. I have been witness to the aftermath of young people who suffer anoxic brain injuries from these conditions. As a father of young children I have fear and anxiety of the health effects caused by air pollution and traffic caused by these logistics centers. I must weigh staying in the community and raising my children here or leaving for areas with cleaner air and water.

Choosing to allow projects like this to move forward may create new short term jobs and economic growth. However, these jobs are often low paying and subject to replacement through automation. The economic growth is limited by physical warehouse space. The detriment to the communities' health is not limited, and will affect generations of residents. Please consider alternatives to these warehouses. As elected officials, please serve and protect the health of the community.

Regards,
William Landa
(661) 202-0831
wisaiahlanda@gmail.com

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: William Landa
To: Cheylynda Barnard
Cc: City Clerk
Subject: Moreno Valley Trade Center
Date: Wednesday, April 12, 2023 8:15:28 AM

Warning: External Email – Watch for Email Red Flags!

Dear Cheylynda Barnard,

I am a resident and employee of Riverside County; I live on the March JPA and I work as an ICU nurse at Riverside University Health System. My wife and I are raising three young children aged 4, 2, and 1 years old here in Moreno Valley. As a father and a healthcare professional, I am concerned about the impact of the rapid expansion of logistics centers in the area. I am writing to you specifically about the proposed Moreno Valley Trade Center between Quincy St. and Redlands boulevard.

The Moreno Valley Trade Center (MVTC) is just another development in the unending destruction to the people, land, and air of this area. The MVTC project will cause more pollution and decrease air quality. The environmental plan itself says that long term decrease in air quality from NOx and greenhouse gas emission cannot be fully mitigated. These emissions are linked to pulmonary, cardiovascular, and oncological disorders. As an ICU nurse I have seen first hand the devastation that pulmonary diseases such as asthma, lung cancer, and COPD can cause. I have been witness to the aftermath of young people who suffer anoxic brain injuries from these conditions. As a father of young children I have fear and anxiety of the health effects caused by air pollution and traffic caused by these logistics centers. I must weigh staying in the community and raising my children here or leaving for areas with cleaner air and water.

Choosing to allow projects like this to move forward may create new short term jobs and economic growth. However, these jobs are often low paying and subject to replacement through automation. The economic growth is limited by physical warehouse space. The detriment to the communities' health is not limited, and will affect generations of residents. Please consider alternatives to these warehouses. As elected officials, please serve and protect the health of the community.

Regards,
William Landa
(661) 202-0831
wisaiahlanda@gmail.com

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Tom Thornsley
To: City Clerk; Sean P. Kelleher
Subject: Comment Letter for Moreno Valley Trade Center.
Date: Tuesday, April 11, 2023 10:20:09 AM
Attachments: Council Members Letters.docx

Warning: External Email – Watch for Email Red Flags!

Good Morning,

Attached is my comment letter for the upcoming public hearing on the Moreno Valley Trade Center. Please make sure is gets to the Council Members and is part of the public record provided in the Staff Report for the hearing.

Sincerely,
Tom Thornsley

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Tom Thornsley
tomthornsley@hotmail.com

April 11, 2023

To: Moreno Valley City Council (via email: cityclerk@moval.org)

Subject: Reject Moreno Valley Trade Center Appeal

Dear Moreno Valley Councilmembers,

You are once again about to consider the Moreno Valley Trade Center, a project that was denied by the Planning Commission for good cause. Since that denial the developer has done a lot to sway your vote by first offering to improve a section of Alessandro Boulevard that has nothing to do with their project. Now the developer is offering you the chance to get a Sports Park if you agree to approve their project. That is a blatant, out in the open, bribe for your vote and not how the voters of this Moreno Valley expect you govern our city. . Think about the precedence this sets for others seeking project approval. Are City Council Members' votes for sale?

In the year and a half since this appeal was first continued, just before a vote (likely to deny) would have taken place. Since then there is no doubt the developer and even city staff encourage you to approve this project over the objections of the community. I expect each Council Member to disclose all their conversation regarding this development prior to the start of the public hearing for this project.

This project site is intended for homes which are necessary for the city to stay on track with offering a diversity of housing types and to meet their State housing requirements. If you know the Municipal Code at all, you would know that Light Industrial Districts (for warehouse develop) must be buffered from Residential Districts by other uses such a Business Park. Here is what the Municipal Code say:

9.05.010 Purpose and intent.

2. To protect residential, commercial and nuisance-free nonhazardous industrial uses from noise, odor, dust, smoke, truck traffic and other objectionable influences and from fire, explosion, radiation and other hazards potentially related to certain industrial uses;

9.05.020 Industrial districts.

A. **Business Park District** (BP). The primary purpose of the business park (BP) district is to provide for light industrial, research and development, office-based firms and limited supportive commercial in an attractive and pleasant working environment and a prestigious location**. This district is intended to provide a transition between residential and other sensitive uses and more intense industrial and warehousing uses.**

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Is it appropriate to only provide one narrow range of employment opportunities over an entire city? In the past decade, the city has processed land use changes to permit in excess of 53,000,000 square feet of large warehousing opportunities with 40,000,000 more on the cusp of development. During this time the city has done away with available land for housing, commercial, and business park opportunities, all in conflict with the intents of the old and new General Plans intent. Now it seems little value is being placed on the city's newly adopted general plan which intended to establish a stable, balance of growth for the foreseeable future.

Good planning policy has always advocated keeping industrial uses away from residential. However, past and present city leaders and planning staff have failed to maintain this policy for the protection of the existing and potential residential areas. Nor have they embraced their General Plan's objectives. Environment impacts from industrial uses such as warehousing impose significant harm to residential areas. In many instances you will be lead to believe that air, noise, traffic, and lighting impacts are minimal. Playing up impacts as minimal detracts from the ultimate reality of putting a warehouse adjacent to existing homes. The complexities of these impacts will way heavy on adjacent residents and degrade their standard of living. This also devalues their homes and will hinder development of adjacent and nearby vacant residential land, further limiting the City's ability to reach its required housing count.

So what should be done? Compliance with the City's General Plan should be maintained, not only here but throughout the Moreno Valley. At this time the city has reached its saturation point for mega-warehouses and should be looking to establish higher goals for employment diversity and opportunities while achieving the needs for residential development. Just east of this project site is an approved specific plan that will develop the equivalent of 40 one-million square foot mega-warehouses. This alone should be enough for us to just say **NO** to any other mega-warehouses, including **NO to the Moreno Valley Trade Center**.

Sincerely,

Tom Thornsley

Tom Thornsley

Attachment: Moreno Valley Warehouse Approvals 2009-2022

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Moreno Valley Warehouse Approvals 2009-2021

Since 2009, Moreno Valley has approved, or is reviewing, at least the following industrial warehouse projects that serve as “distribution” or “logistics” centers for consumer goods, and as such, they are part of the “goods movement” network 53,070,835 square feet:

- March Business Center (2009) – General Plan Amendment to allow 1,484,407 square
- feet of industrial warehouse space on 66.9-acres.
- Master Plot Plan PA07-0035 (2010) - 409,598 square foot industrial warehouse
- West Ridge Commerce Center (2011) - 937,260 square foot warehouse distribution
- building
- VIP Moreno Valley Project (2012) - 1,616,133 square foot warehouse space
- First Inland Logistics Center II Project (2013) - 400,130 square feet warehouse space
- First Nandina Logistics Center Project (2014) - 1,450,000 square feet warehouse space
- Prologis Eucalyptus Industrial Park Project (2015) - 2,244,419 square feet of warehouse uses including a General Plan Amendment from residential to Light Industrial
- World Logistics Center (2015) - 40.6 million square feet of warehouse logistics development on 3,918 acres in eastern Moreno Valley
- Indian Street Commerce Center Project (2016) - 446,350 square feet of warehouse space
- Moreno Valley Logistics Center (2016) - 1,736,180 total square feet of warehouse space
- Brodiaea Commerce Center (2017) - 262,398 square foot warehouse including a rezone from Business Park-Mixed Use to “Light Industrial”
- Moreno Valley Business Park (2021) - 220,390 square feet of warehouse logistics development including a General Plan Amendment to from commercial to light industrial
- Heacock Commerce Center (2021) – application for a General Plan Amendment and Change of Zone for two high cube industrial buildings totaling 873,967 square feet
- Compass Danbe Center Point (2021) – application for a General Plan Amendment to allow for the development of two light industrial buildings of 389,603 square feet

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Sean P. Kelleher

From: George Hague <gbhague@gmail.com>
Sent: Tuesday, April 11, 2023 11:44 AM
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Comments on Moreno Valley Trade Center (MVTC).... "Moreno Valley warehouse — larger than city's mall "

Warning: External Email – Watch for Email Red Flags!

Good morning City Council members, April 11, 2023

The 1.26 million sq ft Moreno Valley Trade Center's (MVTC) has done almost nothing to reduce its significant Diesel pollution impacting the health of nearby residents — especially of children and the elderly.— since the Planning Commission voted unanimously to deny the project. **Even their 18 acre sports park mentioned in the June 2022 article found below is adjacent to Redlands Blvd which north of SR-60 is a city designated diesel truck route for the MVTC and other warehouse projects like the World Logistic Center (WLC) that will again impact the health of children using the park.**

BOTH THE MVTC AND SPORTS PARK ARE IN THE WRONG LOCATION BECAUSE OF TOXIC DIESEL POLLUTION AND HOW THEY WILL RESULT IN THE HEALTH IMPACTS TO CHILDREN.

The 40 million sq ft World Logistic Center (WLC) with its 13,000 Daily Diesel Truck Trips impacting SR-60/local roads will begin grading this year and will construct at least 26 warehouses about the size of the MVTC. Moreno Valley doesn't need to approve any more warehouses and unions will have work for many years to come on the WLC.

Sincerely,

George Hague

Moreno Valley warehouse — larger than city's mall — is back for consideration

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Silvia Flores, seen Friday, June 17, 2022, with children, Jillian Flores,13, at right, and Slater Flores, 11, opposes a 1.26-million-square-foot warehouse in her neighborhood. They are standing in the middle of Mozart Way, with Encelia Avenue behind them, where the proposed warehouse could rise. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

By **DAVID DOWNEY** | ddowney@scng.com | The Press-Enterprise

PUBLISHED: June 19, 2022 at 7:00 a.m. | UPDATED: June 19, 2022 at 7:01 a.m.

A plan to build a warehouse larger than the Moreno Valley Mall across the street from houses on half-acre lots is returning to the Moreno Valley City Council.

The council is set to decide Tuesday, June 21, whether to greenlight a 1.26-million-square-foot logistics project called the Moreno Valley Trade Center, on 80 acres south of the 60 Freeway.

The developer, Dallas-based Hillwood Investment Properties, has said the warehouse would stand 48 feet tall.

The project's final environmental impact reportstates that the building could reach 100 feet if occupied by a fulfillment center filling the orders of online shoppers.

Previous

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

- Next

1 of 2

A 1.26-million-square-foot warehouse is proposed to be built on this land, seen Friday, June 17, 2022, across the street from Moreno Valley homes. (Photo by Terry Pierson, The Press-Enterprise/SCNG)

In advance of Tuesday's meeting, letters from people on both sides of the issue have poured in to the city.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Walter Fus, saying he has been a Moreno Valley resident since 1977 and is a retired Air Force pilot, wrote Saturday, June 11, that approving the project "would be the most egregious decision this council could ever make."

Cristina Rivera, in a Wednesday, June 15, email, urged approval in praising an amenity the developer promised, if allowed to build. The project "will bring a new desperately needed sports park to the City of Moreno Valley," Rivera wrote.

Union carpenters submitted letters of support, saying the project would create construction jobs.

A decision was postponed

In October, the Moreno Valley Planning Commission rejected the project on a 4-0 vote, with one commissioner not participating due to a potential conflict of interest, concluding the center was incompatible with a neighborhood to the south. Hillwood Investment Properties appealed the decision to the council, which discussed the project in December but postponed a decision.
Now the project is back.

City planners are recommending the council approve it, by certifying the environmental impact report, approving a general plan amendment, changing the zone and making a determination that the project won't "result in a net loss in residential capacity."
In changing the property designation, the city would eliminate the potential for 145 single-family houses to be built, according to an environmental report.

Project proponents are seeking approval at a time when some Inland Empire communities are pushing back against warehouses.
For example, the Redlands City Council recently enacted a moratorium on industrial projects on the city's west side. Earlier, Jurupa Valley limited warehouses to its Mira Loma and Agua Mansa areas, and adopted rules for other types of businesses that generate heavy truck traffic. And Pomona is considering a 45-day moratorium on new warehouses.
At the same time, online shopping is soaring and continues to drive a regional explosion in the logistics industry.
The Moreno Valley Trade Center arrived on the dais of the Planning Commission in fall, a few months after the city completed an overhaul of its general plan, a guide for future growth.

That document designated the 80-acre project site, west of Redlands Boulevard between Eucalyptus and Encelia avenues and mostly empty except for an 8.5-acre plant nursery, as a place for houses on half-acre lots.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Hillwood is seeking permission to deviate from that new growth guide. In part because of that, Planning Commission member Jeff Sims called on the council to kill the project in a Saturday, June 11, letter.

"Why have an approved General Plan and not honor it?" Sims wrote.

Two other projects in pipeline

There are two other warehouse projects in the early stages.

One is called Edgemont Commerce Center, a proposed 142,345-square-foot warehouse distribution building on approximately 7 acres southwest of Bay Avenue and Day Street.
The other is Heacock Commerce Center, a pair of industrial buildings totaling 874,000 square feet on 46 acres southeast of Gentian Avenue and Heacock Street.
City spokesperson Matthew Bramlett said in email Thursday that environmental reports are being prepared for both projects and it's not known when they will be completed.

Like Moreno Valley Trade Center, the Heacock project can't be built unless the city lets the developer deviate from the general plan. Warehouses are allowed at the Edgemont site, though a zone change is required to build one bigger than 50,000 square feet.

George Hague, conservation chair for the Moreno Valley Group of the Sierra Club, said those projects are also in the wrong place because they are near homes and schools.

The California Air Resources Board submitted letters to the city warning that each project has the potential to "expose nearby communities to elevated levels of air pollution."

In separate letters, Robert Krieger, chief of the California Air Resources Board's Risk Reduction Branch, wrote that both projects are "in census tracts that score within the top 1 percent of State's most impacted from air pollution from an environmental hazard and socioeconomic standpoint."

Truck traffic, air pollution concerns

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

As for the Moreno Valley Trade Center, since the December hearing Hillwood has made changes.

The warehouse footprint has been reduced by 65,582 square feet to approximately 1,263,271 square feet, a city report states. A 35-foot-tall earthen berm, landscaped with trees and shrubs is to be built along Encelia Avenue. Truck access is to be limited to Eucalyptus Avenue. The number of loading docks is to be reduced by four, to 117, on the south side of the building, and by seven, to 97, on the north side.

Also, Hillwood has offered to build an 18-acre park at Redlands Boulevard and Ironwood Avenue that features two lighted soccer fields, a lighted baseball field, a playground, concession stand and exercise equipment.

Manuel and Arminda Del Alto, who live near Encelia Avenue, said improvements such as the berm don't alleviate concerns. They moved to Moreno Valley 14 years ago from Ontario because they wanted to escape the warehouses going up there.

"My main concern is what the trucks and cars will put in the air," said Manuel Del Alto, who has had a lung transplant.

Arminda Del Alto said they enjoy hearing birds and coyotes in the distance, and worry they will disappear.

Silvia Flores, who lives nearby with her husband, Joe, and two children ages 13 and 11, said she worries about pollution and traffic.

"It's going to be terrible to have all these trucks," Flores said.

The environmental report states that the logistics center would generate about 2,320 vehicle trips per day, including 1,436 by passenger vehicles and 885 by trucks. Under the fulfillment center scenario, the total would be 6,607 daily vehicle trips, including 5,750 passenger vehicles and 857 trucks.

Hillwood made several proposals earlier to soften the project's impact on the neighborhood, including setting aside:

- $125,000 to establish an account to purchase of at least five electric-powered heavy trucks that drive the 60 Freeway corridor through Moreno Valley
- $64,000 to create an account for defraying up to 90% of neighbors' costs of purchasing and installing noise-insulation equipment, with a per-home limit of $8,000. Eleven homes on Galino Court, Essen Lane, Gershwin Way, Mozart Way, Strauss Lane and Shubert Street would be eligible for the payments.
- $40,000 to establish an account to pay up to 90% of a homeowner's cost of purchasing and installing air filtration systems, with a per-home limit of $5,000. The same 11 households would be eligible for such payments.

RELATED LINKS

- **Massive Moreno Valley warehouse project still alive**
- **Has Moreno Valley reached its warehouse saturation point?**
- **Pushback against warehouses in the Inland Empire gains momentum**
- **$47 million settlement reached in World Logistics Center lawsuit**
- **Moreno Valley council says yes — again — to World Logistics Center**

Despite the offers, Sims, the planning commissioner, said, "you can't negate the smog, the traffic and the noise."

The warehouse building also would eclipse neighbors' views, he said.

On most days, they can see foothills.

"On a clear day you can see the mountains looking up toward the Big Bear area," Sims said. If the project goes in, he said, "all we will be able to see is a big wall looking to the north."

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: sherylgleason
To: Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Martinez; Cheylynda Barnard; City Manager"s Office_DG; City Clerk"s Dept_DG
Subject: I STILL Support Moreno Valley Trade Center
Date: Tuesday, April 11, 2023 12:51:44 PM

Warning: External Email – Watch for Email Red Flags!

I am writing in continued support of the Moreno Valley Trade Center.

This project will bring the residents of Moreno Valley a new sports park, infrastructure improvements, hundreds of good union jobs, and over 1,000 more will be created for operations.

This investment in Moreno Valley will bring benefits for decades to come.

Join me in expressing continued support for the Moreno Valley Trade Center.

Thank you

Sent from my Verizon, Samsung Gadhelaxy smartphone

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Darric
To: Ken Morin; Alvaro Valdivia; Andre Moye; Antonio Hoggins; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cheylyndaforcouncil@gmail.com; Cindy Ramos; Crys Tom; DAMON FOREMAN; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jesus Flores; John Hubbs; Jose Garcia; Jeff Sims; Karie Woodward; Ken Morin; Lisa Tuy; Liz Anderson; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; Sharilyn Bankole; Terry Scheschy; Tom and Terri Thornsley; VERONICA Ramos; cdftom@aol.com; Darric Williams; juancortega87@gmail.com; lalfaro1962@gmail.com; luckys55@aol.com; nelly_meza126@yahoo.com; sfwhardy@yahoo.com; Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; cheylendab@moval.org; City Clerk"s Dept_DG; City Manager"s Office_DG
Subject: April 18th Council Hearing on Moreno Valley Trade Center (MVTC)
Date: Tuesday, April 11, 2023 2:25:57 PM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

The MVTC is case where the proximity to current affected residents is a major problem.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. The objective fact that we have to sit through 50+ paid shills of this MVBC political theatre is disappointing. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would disapprove. It is shocking to us that some things people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for Moreno Valley do not live in this community. This is not a good project in the current location... If you approve this project then you will want to approve the other adverse project because the ball is rolling... I would like not to assume that you care more about city revenue than the health and well-being of the people in your community.

If these developers are offering $500,000 to the city to develop in areas that will cause irreparable harm to the community then there must be something that is innately wrong with the project. **It does not fit in with this community and my children will pay the price for greed and power**. **You ran as Democrats that are supposed to care about the community and environment over corporate greed**. Your constant disregard for being consistent about neglecting the need and forsaking the public trust is disturbing. But again objectively you are considering large warehouses that **will not have many six-figure jobs and tons of low-wage jobs** that are not making a liveable wage. This behavior that is being tolerated does not fit in with our progressive agenda and typifies the corporate monster that is allowed to propagate itself in retrospect to what you ran on as politicians and supposed protectors of the community.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Our AG Rob Bonta has also filed a lawsuit accusing Moreno Valley of violating environmental law. I cease to understand why the proponents of these actions fail to see the eminent devastation of an otherwise good family neighborhood being shuttered to usher in "TAX DOLLARS" instead of maintaining a good quality of living for the affected residents.

Reiterating the sad part is that we will rehash the sideshow of union workers claiming to be a part of our community that somehow we never see at our local meetings tell us how good this project is for Moreno Valley, to say nothing of how it will affect the immediate local residents. These actors are not in fact a part of our local community. They never talk about family, kids, traffic, noise, or air quality in the local community. They only talk about jobs. Low-paying warehouse jobs. Why is that? Because they do not live here off of Redlands. They have no interest in our concerns about why this project's location and proximity to our community is a net negative.

We are very disappointed that the developer in the 11th hour wishes to gain an audience with our community to attempt to tell the council that we agree with this project. Rest assured this is not the case. The developer has stood up a website www.moreformv.com which does not address pollution, noise, and traffic and does not directly address our concerns legitimately. They framed their solutions to somehow be a net benefit to us considering their proximity. It is disinformation/misinformation at best in the same vein as CNN and/or Fox News anchors stating their opinion as facts. They are gaslighting our community by continuing along with this comedy of errors. We have made our concerns known and have not received any satisfactory resolutions to those concerns.

1. Traffic in our neighborhood

2. Noise abatement from offending businesses

3. Traffic mitigation where that disaster area called a roundabout on Redlands located Redlands Blvd., especially if more trucks are going to be on it

4. Why do we need another warehouse in MV when other cities have placed moratoriums on them?

5. Jobs they claim to create are all low-wage jobs. We do not need those kinds of jobs.

6. Why are you offering to build a park (Not near us, I might add) if this project is a net positive for Moreno Valley?

At the end of the day, I like business and growth. Just not at the expense of my home, children, and the overall well-being of our community. This project cannot exist in its current plan. All involved need to go back to the drawing board and create a community master plan that does not infringe on residents or develop businesses that the residents will use. Not all

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

business is good business. I expect that the city council maintains its rejection of this project. There are other opportunities for business without the downsides of what we are currently present with.

--
Darric V. Williams

Cell 951.634.9143

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Darric
To: Ken Morin; Alvaro Valdivia; Andre Moye; Antonio Hoggins; Brian Jackson; Carolyn Valencik; Ceci Yahoo; Charles Ober; Cheylyndaforcouncil@gmail.com; Cindy Ramos; Crys Tom; DAMON FOREMAN; David McAbee; Don McNicholas; Edna White; Ericka Partida; Eugene Wright; Jackie McGee; James Hagen; Jean Mims; Jesus Flores; John Hubbs; Jose Garcia; Jeff Sims; Karie Woodward; Ken Morin; Lisa Tuy; Liz Anderson; Margarita Valdivia; Maritza Torres; Mark & Donna Montgomery; Merrick; Nancy Altamirano; Pierre Overton; Ramona Zuniga Morales; Randy Thomas; Ray; Renee Smith; Richard Moreno; Richard White; Sharilyn Bankole; Terry Scheschy; Tom and Terri Thornsley; VERONICA Ramos; cdftom@aol.com; Darric Williams; juancortega87@gmail.com; lalfaro1962@gmail.com; luckys55@aol.com; nelly_meza126@yahoo.com; sfwhardy@yahoo.com; Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; cheylendab@moval.org; City Clerk"s Dept_DG; City Manager"s Office_DG
Subject: Re: April 18th Council Hearing on Moreno Valley Trade Center (MVTC)
Date: Tuesday, April 11, 2023 2:27:11 PM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilmembers;

The MVTC is case where the proximity to current affected residents is a major problem.

I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. The objective fact that we have to sit through 50+ paid shills of this MVTC political theatre is disappointing. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would disapprove. It is shocking to us that some things people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for Moreno Valley do not live in this community. This is not a good project in the current location... If you approve this project then you will want to approve the other adverse project because the ball is rolling... I would like not to assume that you care more about city revenue than the health and well-being of the people in your community.

If these developers are offering $500,000 to the city to develop in areas that will cause irreparable harm to the community then there must be something that is innately wrong with the project. **It does not fit in with this community and my children will pay the price for greed and power**. **You ran as Democrats that are supposed to care about the community and environment over corporate greed**. Your constant disregard for being consistent about neglecting the need and forsaking the public trust is disturbing. But again objectively you are considering large warehouses that **will not have many six-figure jobs and tons of low-wage jobs** that are not making a liveable wage. This behavior that is being tolerated does not fit in with our progressive agenda and typifies the corporate monster that is allowed to propagate itself in retrospect to what you ran on as politicians and supposed protectors of the community.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

Our AG Rob Bonta has also filed a lawsuit accusing Moreno Valley of violating environmental law. I cease to understand why the proponents of these actions fail to see the eminent devastation of an otherwise good family neighborhood being shuttered to usher in "TAX DOLLARS" instead of maintaining a good quality of living for the affected residents.

Reiterating the sad part is that we will rehash the sideshow of union workers claiming to be a part of our community that somehow we never see at our local meetings tell us how good this project is for Moreno Valley, to say nothing of how it will affect the immediate local residents. These actors are not in fact a part of our local community. They never talk about family, kids, traffic, noise, or air quality in the local community. They only talk about jobs. Low-paying warehouse jobs. Why is that? Because they do not live here off of Redlands. They have no interest in our concerns about why this project's location and proximity to our community is a net negative.

We are very disappointed that the developer in the 11th hour wishes to gain an audience with our community to attempt to tell the council that we agree with this project. Rest assured this is not the case. The developer has stood up a website www.moreformv.com which does not address pollution, noise, and traffic and does not directly address our concerns legitimately. They framed their solutions to somehow be a net benefit to us considering their proximity. It is disinformation/misinformation at best in the same vein as CNN and/or Fox News anchors stating their opinion as facts. They are gaslighting our community by continuing along with this comedy of errors. We have made our concerns known and have not received any satisfactory resolutions to those concerns.

1. Traffic in our neighborhood

2. Noise abatement from offending businesses

3. Traffic mitigation where that disaster area called a roundabout on Redlands located Redlands Blvd., especially if more trucks are going to be on it

4. Why do we need another warehouse in MV when other cities have placed moratoriums on them?

5. Jobs they claim to create are all low-wage jobs. We do not need those kinds of jobs.

6. Why are you offering to build a park (Not near us, I might add) if this project is a net positive for Moreno Valley?

At the end of the day, I like business and growth. Just not at the expense of my home, children, and the overall well-being of our community. This project cannot exist in its current plan. All involved need to go back to the drawing board and create a community master plan that does not infringe on residents or develop businesses that the residents will use. Not all

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

business is good business. I expect that the city council maintains its rejection of this project. There are other opportunities for business without the downsides of what we are currently present with.

--

On Tue, Apr 11, 2023 at 2:25 PM Darric <darricgs400@gmail.com> wrote:

> Honorable Mayor and Councilmembers;
>
> The MVTC is case where the proximity to current affected residents is a major problem.
>
> I believe that the people in the affected community should have the most credibility because we also represent the children to be affected by the decisions of people and interests that do not hold or care about the well-being of our community. The objective fact that we have to sit through 50+ paid shills of this MVBC political theatre is disappointing. There are always paid workers that claim to live amongst us or live in Moreno Valley at large to lobby for destructive and irreversible policy prescriptions for our neighborhood in the name of revenue and personal gain or greed. It is frustrating to listen to and deal with knowing those people who are for projects in our community do not live here. If the same questionable projects were dropped in their community they would disapprove. It is shocking to us that some things people believe are "Good for Moreno Valley". Really? Good for who? These outside interests wanting and praising this project as a net positive for Moreno Valley do not live in this community. This is not a good project in the current location... If you approve this project then you will want to approve the other adverse project because the ball is rolling... I would like not to assume that you care more about city revenue than the health and well-being of the people in your community.
>
> If these developers are offering $500,000 to the city to develop in areas that will cause irreparable harm to the community then there must be something that is innately wrong with the project. **It does not fit in with this community and my children will pay the price for greed and power**. **You ran as Democrats that are supposed to care about the community and environment over corporate greed**. Your constant disregard for being consistent about neglecting the need and forsaking the public trust is disturbing. But again objectively you are considering large warehouses that **will not have many six-figure jobs and tons of low-wage jobs** that are not making a liveable wage. This behavior that is being tolerated does not fit in with our progressive agenda and typifies the corporate monster that is allowed to propagate itself in retrospect to what you ran on as politicians and supposed protectors of the community.
>
> Our AG Rob Bonta has also filed a lawsuit accusing Moreno Valley of violating environmental law. I cease to understand why the proponents of these actions fail to see the eminent devastation of an otherwise good family neighborhood being shuttered to usher in

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

"TAX DOLLARS" instead of maintaining a good quality of living for the affected residents.

Reiterating the sad part is that we will rehash the sideshow of union workers claiming to be a part of our community that somehow we never see at our local meetings tell us how good this project is for Moreno Valley, to say nothing of how it will affect the immediate local residents. These actors are not in fact a part of our local community. They never talk about family, kids, traffic, noise, or air quality in the local community. They only talk about jobs. Low-paying warehouse jobs. Why is that? Because they do not live here off of Redlands. They have no interest in our concerns about why this project's location and proximity to our community is a net negative.

We are very disappointed that the developer in the 11th hour wishes to gain an audience with our community to attempt to tell the council that we agree with this project. Rest assured this is not the case. The developer has stood up a website www.moreformv.com which does not address pollution, noise, and traffic and does not directly address our concerns legitimately. They framed their solutions to somehow be a net benefit to us considering their proximity. It is disinformation/misinformation at best in the same vein as CNN and/or Fox News anchors stating their opinion as facts. They are gaslighting our community by continuing along with this comedy of errors. We have made our concerns known and have not received any satisfactory resolutions to those concerns.

1. Traffic in our neighborhood

2. Noise abatement from offending businesses

3. Traffic mitigation where that disaster area called a roundabout on Redlands located Redlands Blvd., especially if more trucks are going to be on it

4. Why do we need another warehouse in MV when other cities have placed moratoriums on them?

5. Jobs they claim to create are all low-wage jobs. We do not need those kinds of jobs.

6. Why are you offering to build a park (Not near us, I might add) if this project is a net positive for Moreno Valley?

At the end of the day, I like business and growth. Just not at the expense of my home, children, and the overall well-being of our community. This project cannot exist in its current plan. All involved need to go back to the drawing board and create a community master plan that does not infringe on residents or develop businesses that the residents will use. Not all business is good business. I expect that the city council maintains its rejection of this project. There are other opportunities for business without the downsides of what we are currently present with.

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

> --
> Darric V. Williams
>
> Cell 951.634.9143

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

--
Darric V. Williams

Cell 951.634.9143
Fax 810.963.0303

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From:	Jeff Sims
To:	gbhague@gmail.com; bunkerjl@gmail.com; Moreno Valley Mayor; Elena Baca-Santa Cruz; Edward A. Delgado; David Marquez; Cheylynda Barnard; Sean P. Kelleher; Gabriel Diaz
Cc:	tolken501@gmail.com; alvaldivia9@gmail.com; lexington92555@yahoo.com; amhsr3@gmail.com; zbrianz@gmail.com; carolyn12502@aol.com; ceciggonzales@yahoo.com; caober4822@yahoo.com; Cheylyndaforcouncil@gmail.com; cramos0086@gmail.com; 4tomboys@gmail.com; mr4man@aol.com; dmcabee18@gmail.com; donm@teamsei.com; lanette54@hotmail.com; aslanjashive@gmail.com; wmrtaz@gmail.com; ajmcgee5@gmail.com; baxterdulce@gmail.com; tjmims@rocketmail.com; 1225jessef@gmail.com; johnhubbs46@yahoo.com; jp15garcia@hotmail.com; kwcw@roadrunner.com; kenmorinrealtor@gmail.com; david+lisat@msn.com; ander3fam@yahoo.com; maguevalgon7@gmail.com; mari_7280@yahoo.com; donna00011@yahoo.com; merricktruss20@yahoo.com; n.altamirano13661@gmail.com; pierredsr@yahoo.com; rlzm36@aol.com; rwbcthomas@roadrunner.com; stingyh333@yahoo.com; rrsmith33326@gmail.com; rtmoreno97@hotmail.com; richard_white7@msn.com; amindforgod@cs.com; shellymesa@roadrunner.com; tscheschy@aol.com; tomthornsley@hotmail.com; vip_ramos@hotmail.com; cdftom@aol.com; darricgs400@gmail.com; juancortega87@gmail.com; lalfaro1962@gmail.com; luckys55@aol.com; nelly_meza126@yahoo.com; sfwhardy@yahoo.com
Subject:	Re: April 18th Council Hearing on Moreno Valley Trade Center (MVTC) & city council email addresses
Date:	Wednesday, April 12, 2023 12:47:32 PM

Warning: External Email – Watch for Email Red Flags!

Honorable Mayor and Councilpersons,

April 18 the Moreno Valley Trade Center ("MVTC") is again on your agenda to consider overturning your Planning Commissions October 28, 2021 unanimous denial of the project.

At the December 7, 2021 Council appeal hearing after hearing significant public comments, the public hearing formally closed, and after council deliberation, then Mayor Gutierrez indicated "it didn't seem as if there was support for the project." Instead of taking the vote, he suggested a continuance to a date uncertain. This was motioned and approved 3-1. Here we are close to a year and half later and now the matter is back.

During the council deliberation on December 7, 2021 Councilpersons Delgado, Cabrera, and Marquez made the following comments:

Councilperson Marquez: "praised the project but asked when the city would cease approving warehouses in residential areas."

Councilperson Cabrera: "he explained the decision was difficult. He agreed that good paying jobs are necessary. He added that the issue lies in determining whether the economic benefits outweigh all of the negative impacts.....He acknowledged the extensive work performed by Hillwood to mitigate a lot of the negative issues, but explained the location is the crux of the issue. He expressed his desire that there were no docks or truck parking on the south side of the building."

Councilperson Delgado: "stated Hillwood's proposal has exceeded expectations. He indicated the project would be better suited in a different area.....He expressed he would fully support the project if were located elsewhere."

To read the minutes in whole, refer to the City's website.

As on December 7, 2021 the Hillwood's MVTC project continues to propose:

1. Putting a massive 1.3 MSF logistics warehouse with associated traffic and pollution (noise and air) on R-2 zoned property directly adjacent to existing R-2 and R-3

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

homes. To put into perspective, the MVTC building size is in area is larger than the Moreno Valley Mall.

2. A project that continues to fail to adequately mitigate significant environmental impacts. The email from George Hauge below provides information about that.

3. A project layout that has not changed. It continues to propose a 1.3 million SF warehouse with truck docks on both the south (neighborhood side) and north side. Directly ignoring then Councilperson, now Mayor Cabrera's comments during December 7, 2021 deliberations.

4. A project that will build a 40-foot-wide private truck roadway parallel to Encelia (around 250 ft. from existing homes along Encelia) for truck traffic to circulate between the truck docks on the north and south side of the building and to access outlets onto Eucalyptus. Based on the plans if you were standing at the intersection of Mozart and Encelia, there will be a 35' +/- landscaped berm and around 15 ft. below the top of berm on the MVTC side of the berm will be the private truck road. From the road going north towards the proposed warehouse will be a 14 ft. tall wall, then truck/trailer parking and loading docks, then the 40 ft. (or 100 ft.) building. Of note the exhaust stacks of the trucks on the private road will be at approximately the same height of the top of the berm. This berm will be used 24/7 and generate noise and air pollution for the neighborhood to put up with.

5. The proposed 35 ft. berm and building will blot out existing north looking view sheds from the neighborhood.

6. The Developer has made no additional mitigation offers for the affected neighborhood such as widening Redlands between Encelia and Dracaea, or putting in traffic signal at either Dracaea or Encelia/Redlands. The only direct mitigating offer to the adjacent neighborhood is for addition at the developer's expense of air filtration units, and sound proofing on some of the existing homes on the south side of Encelia, and power washing of the exterior of some of the homes. The later apparently only during construction. On its face the obvious question is - why would air filtration and sound proofing be needed? We all know why - direct impacts of diesel soot and noise from the added traffic the MVTC places on the community.

7. A project necessitating an amendment of the City's approved General Plan (2040). The recently approved City General Plan (2040) shows the 80 acres where MVTC is proposed as R-2, consistent with the existing neighborhood. Approval of the project by the Council will require overturning the unanimous denial of the project by Planning Commission and approving a General Plan Amendment to change the zoning of the 80 acres from R-2 to business park/industrial. These actions differ from the recently approved warehouses in the Edgemont area, where 1) the buildings were smaller, and 2) the existing land use zoning already allowed this type of projects. Approval of projects whereby their anticipated use knowingly creates noise, traffic, and air pollution from diesel trucks servicing the project should not be approved by residential zoned or existing residential areas. There should be some minimum buffer distance. The state of CA is attempting to create a 1,000 ft. buffer distance, but that has yet to be passed. Other area cities in the inland empire have put the brakes on warehouses due to traffic and environmental issues. With the World Logistics Center (WLC) about to commence construction, it would seem Moreno Valley has more than enough warehouse land use for decades to come and don't need to add more with the MVTC. This council should respect its approved General Plan and not amend it

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

with putting incompatible land uses directly next to one another. There is 2,800 acres of WLC to build and supply all the supposed living wage jobs touted with logistic careers.

8. A project that exacerbates traffic congestion and lowering of the quality of life of all Moreno Valley citizens. Traffic getting in and out of MV is tough now. The 2,800-acre WLC and its impacts on traffic have yet to be absorbed. MVTC will be additive to the massive cumulative traffic impacts this community has to deal with. As a note, the elevation difference between the 60/215 interchange and 60/91 interchange plays a significant role in the congestion and travel time delays currently experienced. The state of CA recently improved the 60 through the badlands, but that stretch of 60 between WLC Parkway and 60/10 interchange is plagued with the same problem as the stretch between Moreno Valley and Riverside.....grade difference. Trucks cannot go as fast as cars going up and down grades when loaded. This we all know as fact. The traffic studies fail miserably to account for this. We Moreno Valley citizens will experience increased traffic going west and east on 60 just to get around in MV with the WLC and MVTC (if approved). There will also be increased air pollution due to the additional truck traffic attracted to the area by the MVTC. An 18-acre park doesn't fix this when your commute time increases substantially. When will you or your children have time to run around on a sports park after spending hours of your life on a weekly basis sitting on the freeway breathing diesel soot?

So, what is different now than what Hillwood has proposed over the last year and a half? The project and its impacts remain the same. The difference now is Hillwood has put on the table an offer of a $500,000 cash contribution to the Moreno Valley Community Fund, and a contribution of an 18-acre sports park. Hillwood has witnessed the controversy and opposition of its project at the Planning Commission, where it was unanimously denied. Hillwood also witnessed the lack of support during council deliberations at the December 7, 2021 appeal. The bottom line is Hillwood can't mitigate the significant impacts of the MVTC and now seek your support of its approval in other ways. Their way is to put these offers/incentives on the table as "mitigating public benefits". There are various terms for what Hillwood is doing to curry favorable results, but I guess the acceptable term nowadays in politics is "influencing."

At the end of the day if approved, the council will be provided hard hat wearing, gold shovel holding, yellow ribbon cutting photo ops as a reward for a yes vote. Maybe people living in other areas of the City may think getting these incentives is a good thing and will indicate their support of you.....but remember they won't have to live with this project literally directly next to them.

Approval of the MVTC comes at the direct cost of one of the existing nicer large lot neighborhoods in Moreno Valley. You can deny the MVTC entitlements and easily point to the coming new jobs and economic benefits the WLC will provide as news indicates it is soon to begin construction. Let the 80-acres where MVTC is proposed be built as residential and let the property taxes and development fees from that support funding of a park. Perhaps transitional density of residential on the 80-acres rather than all R-2 would enable this. The City benefits from higher property taxes and people shopping in Moreno Valley. Added residential rather than more warehouse does that.

You were elected to protect and enhance the quality of life for all Moreno Valley

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

residents. The MVTC is not located in an appropriate location, and it will have direct harm on the existing citizens living in homes adjacent to where the MVTC is proposed. In the past the council denied approval of the Prologis Project adjacent this same existing residential neighborhood. This was responsible and the City continued to move forward despite the loss of the denied Prologis logistic/warehouse square footage. On December 7, 2021 three of the four council appeared to have real concerns about the location of the MVTC and the impacts if would have on the same existing residential, similar to the council when the Prologis project was considered. Hillwood though continues to push forward. MVTC location is in a residential area, there will be a quarter mile or so of loading docks proposed on the south side of the building, and the existing residential will be directly harmed by air and noise pollution, loss of views, and traffic. The rest of the City residents not living next to the MVTC will get the negative harm by more truck traffic, air and noise pollution, and added commute time.....all negatively impacting the quality of life you were elected to protect and enhance. Let Moreno Valley absorb what it already has approved in warehouse/logistic uses.....when is enough, enough?

With the December 7, 2021 council meeting hearing the appeal the public hearing was formally closed. Will this Council reopen the public hearing?

Last - would you want a council to vote to approve the MVTC if your home was directly next to it?

Uphold your Planning Commissions unanimous denial of the MVTC Project.

Jeff Sims
Moreno Valley Resident

-----Original Message-----
From: George Hague <gbhague@gmail.com>
To: Joe Bunker <bunkerjl@gmail.com>
Cc: Ken Morin <tolken501@gmail.com>; Alvaro Valdivia <alvaldivia9@gmail.com>; Andre Moye <lexington92555@yahoo.com>; Antonio Hoggins <amhsr3@gmail.com>; Brian Jackson <zbrianz@gmail.com>; Carolyn Valencik <carolyn12502@aol.com>; Ceci Yahoo <ceciggonzales@yahoo.com>; Charles Ober <caober4822@yahoo.com>; Cheylyndaforcouncil@gmail.com <Cheylyndaforcouncil@gmail.com>; Cindy Ramos <cramos0086@gmail.com>; Crys Tom <4tomboys@gmail.com>; DAMON FOREMAN <mr4man@aol.com>; David McAbee <dmcabee18@gmail.com>; Don McNicholas <donm@teamsei.com>; Edna White <lanette54@hotmail.com>; Ericka Partida <aslanjashive@gmail.com>; Eugene Wright <wmrtaz@gmail.com>; Jackie McGee <ajmcgee5@gmail.com>; James Hagen <baxterdulce@gmail.com>; Jean Mims <tjmims@rocketmail.com>; Jesus Flores <1225jessef@gmail.com>; John Hubbs <johnhubbs46@yahoo.com>; Jose Garcia <jp15garcia@hotmail.com>; Jeff Sims <arlenego@verizon.net>; Karie Woodward <kwcw@roadrunner.com>; Ken Morin <kenmorinrealtor@gmail.com>; Lisa Tuy <david+lisat@msn.com>; Liz Anderson <ander3fam@yahoo.com>; Margarita Valdivia <maguevalgon7@gmail.com>; Maritza Torres <mari_7280@yahoo.com>; Mark & Donna Montgomery <donna00011@yahoo.com>; Merrick <merricktruss20@yahoo.com>; Nancy Altamirano <n.altamirano13661@gmail.com>; Pierre Overton <pierredsr@yahoo.com>; Ramona Zuniga Morales <rlzm36@aol.com>; Randy Thomas <rwbcthomas@roadrunner.com>; Ray <stingyh333@yahoo.com>; Renee Smith <rrsmith33326@gmail.com>; Richard Moreno <rtmoreno97@hotmail.com>; Richard White <richard_white7@msn.com>; Sharilyn Bankole <amindforgod@cs.com>; Shelly Mesa <shellymesa@roadrunner.com>; Terry Scheschy <tscheschy@aol.com>; Tom and Terri Thornsley

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

<tomthornsley@hotmail.com>; VERONICA Ramos <vip_ramos@hotmail.com>; cdftom@aol.com; darricgs400@gmail.com; juancortega87@gmail.com; lalfaro1962@gmail.com; luckys55@aol.com; nelly_meza126@yahoo.com; sfwhardy@yahoo.com
Sent: Fri, Apr 7, 2023 11:30 pm
Subject: April 18th Council Hearing on Moreno Valley Trade Center (MVTC) & city council email addresses

Good morning/afternoon Neighbors,

This is your neighborhood = Speak Up and Show Up!!!

The 1.26 million sq ft Moreno Valley Trade Center massive warehouse which could be at least 100 feet high is again scheduled before the city council = Tuesday November 15th at 6 pm. It would be located at SW Redlands Blvd & Eucalyptus Ave. This is where Hall Nursery is/was located and where the roundabout is on Redlands Blvd. **You can help make a difference = Please Do!**

It is proposed on land zoned for homes on half acre lots and across Encelia Street from family homes to the south.

When the project couldn't protect the neighborhood and the environment, they decided a park at the SE corner of Ironwood Ave/Redlands Blvd could be offered to "INFLUENCE" the council to get at least three votes, **but they fail to explain the park will be next to a city designated diesel truck route with all its harmful pollution impacting the children using the sports park** — active use of the sports park will result in children breathing in deeply the health impacting diesel pollution. The 40 million sq ft World Logistics Center warehouse project has just begun moving forward with its project and will be using Redlands Blvd for some of its 13,000 daily diesel truck trips as will the MVTC. The sports park's tall lights will light up much of NE Moreno Valley with its nighttime glow many days of the week.

If the project is approved, you can expect the Pilot Travel Center/Truck Stop with its many hundreds of daily diesel trucks will be approved directly across Eucalyptus Ave from the MVTC.

If some of the above is approved, you will experience the roundabout trying to handle **several large diesel trucks every minute** throughout most of the day and the out-of-date Redlands Blvd interchange will become a nightmare.

You and each of our neighbors need to email Each council member at least once and ideally more using their email addresses found below before the Tuesday April 18th council hearing. It is usually better to send it to each one individually, but the main thing is to send something.

Moreno Valley City Council Members Email Addresses

Mayor Ulises Cabrera (Mayor@moval.org)

District 1 -Elena Baca Santa Cruz (elenab@moval.org)

District 2 -Edward A. Delgado (edd@moval.org)

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

District 3 -David Marquez (davidma@moval.org)

District 4 - Cheylynda Barnard - Cheylyndab@moval.org

If you also email both planner Gabriel Diaz (Gabrield@moval.org) and planner Sean P. Kelleher (seanke@moval.org) **before this Wednesday April 12th** to the City Council members, **it should get into the agenda packet for the council and public to read**

Just make sure they know it is for the City Council members concerning the Moreno Valley Trade Center it should get to them. I would also cc the City Clerk (cityclerk@moval.org) to make sure it is in the public record.

EVEN THOUGH THEY ARE TRYING TO FIT THEIR VERY LARGE WAREHOUSE ON LAND ZONED FOR HOMES AND ACROSS THE STREET FROM HOMES THE FOLLOWING ARE IMPORTANT AREAS THEY HAVE **NEVER** BEEN ABLE TO COMES CLOSE TO MITIGATING ACCORDING TO THE FOLLOWING FROM THEIR OWN FINAL Environmental Impact Report (EIR):

"5.1 Significant Environmental Effects that Cannot be Avoided if the Project is Implemented

The CEQA Guidelines require that an EIR disclose the significant environmental effects of a project which cannot be avoided if the proposed project is implemented (CEQA Guidelines Section 15126(b)). As described in detail in Section 4.0, *Environmental Analysis*, of this EIR, the proposed Project is anticipated to result in impacts to the environment that cannot be reduced to below a level of significance after the consideration of Project design features, compliance with applicable federal, State and local regulations, and the application of the feasible mitigation measures identified in this EIR. The significant impacts that cannot be mitigated to a level below thresholds of significance consist of the following:

- **Aesthetics: Implementation of the Project would mostly or completely block views** of Reche Canyon and the Badlands (and the San Bernardino Mountains beyond) from the segment of Encelia Avenue that abuts the Project site on the south (west of Shubert Street). Also, implementation of the Project would mostly or completely block scenic views of Mount Russell and its foothills from the segment of Eucalyptus Avenue that abuts the Project site. This would be a significant and unavoidable direct impact.
- **Air Quality (Air Quality Management Plan Conflict):** The Project would emit air pollutants (NOx) that would contribute to a delay in the attainment of federal and State ozone standards in the SCAB. Because the Project requires a General Plan Amendment, it also would exceed the growth projections contained in SCAQMD's *2016 AQMP*. As such, the Project would conflict with and could obstruct implementation of the *AQMP*. Project impacts due to a conflict with the SCAQMD *2016 AQMP* would be significant and unavoidable on both a direct and cumulatively-considerable basis.
- **Air Quality (Criteria Pollutant Emissions):** After the application of Project design features, mandatory regulatory requirements, and feasible mitigation measures, Project-related NOx emissions during long-term operation of the Project would remain above the applicable SCAQMD regional thresholds. Accordingly, Project-related emissions would not meet SCAQMD air quality standards and contribute to the non-attainment of ozone standards in the

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

SCAB. Therefore, Project operational-related impacts due to NOx emissions would be significant and unavoidable on a direct and cumulatively-considerable basis.

- **Greenhouse Gas Emissions (GHG Emissions Generation):** Project-related GHG emissions would exceed the applicable SCAQMD significance threshold for GHG emissions and would result in a cumulatively-considerable impact to the environment." (page 5-1 in MVTC Final EIR)

Neighbors Helping Neighbors,

George Hague

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Jeff Sims
To: Sean P. Kelleher; Gabriel Diaz
Subject: Fw: Public Hearing April 18, 2023
Date: Wednesday, April 12, 2023 3:17:16 PM

Warning: External Email – Watch for Email Red Flags!

Please also add this as well to the public comment re MVTC

thanks

Jeff Sims

Sent from AOL on Android

----- Forwarded Message -----
From: "Jeff Sims" <arlenego@verizon.net>
To: "tomthornsley@hotmail.com" <tomthornsley@hotmail.com>, "ulisesc@moval.org" <ulisesc@moval.org>, "mayor@moval.org" <mayor@moval.org>, "cheylyndab@moval.org" <cheylyndab@moval.org>, "bunkerjl@gmail.com" <bunkerjl@gmail.com>
Sent: Wed, Apr 12, 2023 at 1:13 PM
Subject: Re: Public Hearing April 18, 2023

Mayor Cabrera,

I have the same concerns as Mr. Thornsley. A project of the magnitude of the MVTC needs to be fully vetted in a transparent manner. Hillwood has their website and pro-MVTC advocacy going in full force to gather up support. They have pulled out the stops offering "community benefits" - $500K in cash and a park to somehow mask the significant environmental impacts it can't mitigate.

I ask you to go back and watch the video of you and your fellow council members during the December 7, 2021 deliberations. MVTC has addressed none of the actual concerns you, Delgado, and Marquez brought up. The project may have been denied that night had there been a vote, but Guiterrez threw out a lifeline by closing the hearing and then continuing the matter.

The project hasn't changed. The harm it will cause to the neighborhood directly next to it hasn't changed. Only the cash and park.

Your advisory Planning Commission unanimously denied MVTC in October 2021. It upheld the recently approved General Plan (2040) to not approve an amendment to allow incompatible land uses directly next to each other.

The public should not be confused, and the vote should be made transparently. The Public Hearing for this matter should be reopened.

Jeff Sims
(951) 809-3308

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

-----Original Message-----
From: Tom Thornsley <tomthornsley@hotmail.com>
To: Ulises Cabrera <ulisesc@moval.org>; Mayor@moval.org <mayor@moval.org>
Sent: Wed, Apr 12, 2023 11:23 am
Subject: Public Hearing April 18, 2023

Mayor Cabrera,

I, and many others, worried that you will not permit further public comments on the Moreno Valley Trade Center Appeal hearing on April 18. It is my understanding that when the City Council last heard the appeal of the Moreno Valley Trade Center the public comment portion of the hearing was closed then Council discussion was continued just before a vote would have occurred. That might technically mean that the Council only has to reconvene and vote on this project. However, that last hearing was almost a year and a half ago and a lot has changed since then, including the addition of a new Council Member not involved with this issue. Additionally, the developer has put forth new incentives for garnering approval, a new development agreement has been prepared, and likely some other changes to the project plan.

After all tht time, memories have faded and the developer has had and extensive amount of time to privately persuade each Council Member. I expect each Council Member to be forthcoming about how much contact they have had with the developer over the past 17 months. In all fairness to everyone involved, next Tuesday's appeal hear should be a reboot, starting over from the beginning and all community members should be permitted to speak on this project, prior to any Council consideration and voting.

Respectively,

Tom Thornsley

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: George Hague
To: Gabriel Diaz
Cc: Sean P. Kelleher; City Clerk
Subject: Comments on the Moreno Valley Trade Center -- 3
Date: Wednesday, April 12, 2023 3:27:00 PM

Warning: External Email – Watch for Email Red Flags!

Good afternoon City council members

I hope you will read each of the city adopted goals found below and think of how they apply to the Moreno Valley Trade Center (MVTC) — ensuring things like a smooth transition and sensitive to surrounding context as well as others are never addressed when placing warehousing so close to sensitive receptors like family homes. These Goals should not be applied only when it is convenient and avoided when they are not.

City Goals Not Being addressed on warehouse project reviews = Please read each one found below.

Noise (N)
Goal N-1 Design for pleasant healthy sound environment conducive to living and working

Goal N-2 Ensure that noise does not have a substantial, adverse effect on quality of life in the community.

Environmental Justice (EJ)
Goal EJ-1 Reduce pollution exposure and improve community health.

Land Use and Community Character (LCC)
Goal LCC-3: Build a distinctive sense of place and pride in Moreno Valley.

LCC.3-1 Insist on high-quality development that is sensitive to surrounding context throughout the city and particularly in centers and corridors.

LCC.3-2 Use development standards to ensure smooth transitions for areas that border one another so that neighborhoods and districts maintain their unique qualities while being compatible with one another.

LCC.3-17 Screen and buffer nonresidential projects to protect adjacent

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

residential property and other sensitive land uses when necessary to mitigate noise, glare and other adverse effects on adjacent uses.

The planning Department needs to prove all of these have been met by all warehouse projects and that includes the Moreno Valley Trade Center.

Sincerely,

George Hague

Attachment: City Council - Public Comments Packet 3 of 3 (6209 : Moreno Valley Trade Center/Park)

From: Mark Ostoich
To: Mike Lee; Manuel A. Mancha; Sean P. Kelleher
Cc: Steve Quintanilla; "Morse, Scott"; "Grace, John"; Mark Ostoich
Subject: FW: Moreno Valley
Date: Thursday, March 16, 2023 12:45:21 PM

Warning: External Email – Watch for Email Red Flags!

From: Mark Ostoich <mark@ostoichlawoffice.com>
Sent: Thursday, March 16, 2023 12:44 PM
To: 'mikel@moval.org' <mikel@moval.org>; 'manuelm@moval.org' <manuelm@moval.org>; 'seanke@moval.org' <seanke@moval.org>
Cc: 'Steve Quintanilla' <steveq@qalawyers.com>; 'Morse, Scott' <scott.morse@hillwood.com>; 'Grace, John' <john.grace@hillwood.com>; Mark Ostoich <mark@ostoichlawoffice.com>
Subject: FW: Moreno Valley

Gentlemen,

I am the attorney for Moreno Valley Trade Center, LLC, the proponent of the Moreno Valley Trade Center Project. Moreno Valley Trade Center, LLC hereby requests that you agendize the following actions for consideration by the City Council on April 18, 2023:

1. Adopt a Resolution approving and adopting the Mitigation Monitoring and Reporting Program and Statement of Overriding Considerations and certifying the Final Environmental Impact Report for the Moreno Valley Trade Center Project;
2. Adopt a Resolution approving General Plan Amendment (PEN 19-091), Tentative Parcel map (PEN 19-0234), and Plot Plan (PEN 19-0193) and the respective conditions of approval, based on the recitals, evidence and findings contained in the administrative record of the proceedings;
3. Introduce an Ordinance approving Change of Zone (PEN 19-0192) and corresponding amendment to the City's Zoning Atlas and the related conditions of approval, based on the recitals, evidence and findings contained in the administrative record of the proceedings;
4. Adopt a Resolution finding and determining pursuant to senate Bill 330, that approval of the Moreno Valley Trade Center project will not result in a net loss of residential capacity; and
5. Adopt a Resolution accepting Community Benefits and a Community Park on behalf of the City of Moreno Valley, as offered by the Moreno Valley Trade Center, LLC and set forth in a Community Park Acquisition and Improvement Agreement and authorize the City Manager to sign the Agreement and approve any subsequent amendments, subject to the consent of the City Attorney consistent with the intent and purposes of the Agreement.

We look forward to discussing the details of this request with you.

Thank you, Mark Ostoich

1. Privileged and Confidential Communication. The information contained in this email and any attachments may be confidential or subject to the attorney client privilege or attorney work product doctrine. If you are not the intended recipient of this communication, you may not use, disclose,

Attachment: Request for Public Hearing on April 18, 2023 (6209 : Moreno Valley Trade Center/Park)

print, copy or disseminate the same. If you have received this in error, please notify the sender and destroy all copies of this message. 2. Notice re Tax Advice. Any tax advice contained in this email, including any attachments, is not intended or written to be used, and cannot be used, by you or any other recipient for the purpose of (a) avoiding penalties that may otherwise be imposed by the IRS, or (b) supporting, promoting, marketing, or recommending any transaction or matter to any third party. 3. Transmission of Viruses. Although this communication, and any attached documents or files, are believed to be free of any virus or other defect, it is the responsibility of the recipient to ensure that it is virus free, and the sender does not accept any responsibility for any loss or damage arising in any way from its use. 4. Security of Email. Electronic mail is sent over the public internet and may not be secure. Thus, we cannot guarantee the privacy or confidentiality of such information.

Attachment: Request for Public Hearing on April 18, 2023 (6209 : Moreno Valley Trade Center/Park)