# Appendix H

## Brodiaea Development Residential Project
## Vesting Tentative Tract Map No. 39162 (PEN25-0013)

Noise Measurement Data

**Measurements By:**

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

**May 2025**

| Long-Term 24-Hour Noise Measurement Field Data Sheet | |
|---|---|
| Recorded By: C. Uminishi | Date: 3/20 - 3/21/25 |
| Site Number: LT-1 | Job Number: 2025-053 |
| Start Time: 5:00 PM 3/20/25 | End Time: 5:00 PM 3/21/25 |
| Location/Address: Utility Pole across Brodiaea, north of 14272 Annadale Dr | |
| Primary Noise Source: Brodiaea Ave Traffic | |
| Secondary Noise Source: Moreno Beach Drive & Allesandro Traffic | |

**Equipment**

| Category | Type | Vendor | Model | Serial No. | Cert. Date | Note |
|---|---|---|---|---|---|---|
| Sound | Sound Level Meter | Larson Davis | LxT SE | 0006133 | 10/01/2024 | ✓ |
| | Microphone | Larson Davis | 377B02 | 346688 | 10/01/2024 | ✓ |
| | Preamp | Larson Davis | PRMLxT1L | 069947 | 09/30/2024 | ✓ |
| | Calibrator | Larson Davis | CAL200 | 17325 | 10/03/2024 | ✓ |

**Calibration Data**

| Offset Before Measurement Period | Offset After Measurement Period |
|---|---|
| Calibration Time: 4:47 PM | Calibration Time: 5:10 PM |
| Calibration Offset (+-): -0.03 | Calibration Offset (+-): -0.07 |

**Weather Data**

| | Sky Conditions: Clear | | | |
|---|---|---|---|---|
| Est. | Avg Wind Speed (mph) | Max Wind Speed | Temperature ° F | Humidity % |
| | 4 mph | 5.8 mph | 75° | 28.8% |

| CNEL/Ldn | Additional Field Notes |
|---|---|
| | |
| | |

**Manual Traffic Counts (15 minutes in both directions)**

Roadway Segment:

| Autos | Medium Duty (2 axle 6 tires) | Heavy Duty (3+ axle) |
|---|---|---|
| | | |

**Photo(s) of Measurement Location**

| Short-Term 15-Minute Noise Measurement Field Data Sheet | |
|---|---|
| Recorded By: C. Yamashi | Date: 3/20/25 |
| Site Number: ST-1 | Job Number: 2025-053 |
| Start Time: 4:22 PM | End Time: 4:37 PM |
| Location/Address: Northern Portion of APN 478-070-05, between -016 & -017 | |
| Primary Noise Source: Residences to the north, rooster | |
| Secondary Noise Source: Morro Beach & Alessandro ROW Traffic | |

| Equipment | | | | | | |
|---|---|---|---|---|---|---|
| Category | Type | Vendor | Model | Serial No. | Cert. Date | Note |
| Sound | Sound Level Meter | Larson Davis | LxT SE | 0006133 | 10/01/2024 | ✓ |
| | Microphone | Larson Davis | 377B02 | 346688 | 10/01/2024 | ✓ |
| | Preamp | Larson Davis | PRMLxT1L | 069947 | 09/30/2024 | ✓ |
| | Calibrator | Larson Davis | CAL200 | 17325 | 10/03/2024 | ✓ |

| Calibration Data | |
|---|---|
| Offset Before Measurement Period | Offset After Measurement Period |
| Calibration Time: 3:22 PM | Calibration Time: 4:43 PM |
| Calibration Offset (+-): +0.13 | Calibration Offset (+-): +0.02 |

| Weather Data | | | | |
|---|---|---|---|---|
| Est. | Sky Conditions: Clear | | | |
| | Avg Wind Speed (mph) | Max Wind Speed | Temperature ° F | Humidity % |
| | 4 mph | 5.8 mph | 75° | 28.8% |

| Noise Meter Data Outputs (dBA) | | | |
|---|---|---|---|
| Leq | Lmin | Lmax | Ln |
| 52.4 | 35.7 | 73.9 | |

| Manual Traffic Counts (15 minutes in both directions) | | |
|---|---|---|
| Roadway Segment: | | |
| Autos | Medium Duty (2 axle 6 tires) | Heavy Duty (3+ axle) |
| | | |

**Photo(s) of Measurement Location**

1 ☆
203

| Short-Term 15-Minute Noise Measurement Field Data Sheet | |
|---|---|
| Recorded By: C. Yuminshi | Date: 3/20/25 |
| Site Number: ST-2 | Job Number: 2025-053 |
| Start Time: 3:58 PM | End Time: 4:13 PM |
| Location/Address: Brodiaea Ave ROW, in front of 28211 Brodiaea Ave | |
| Primary Noise Source: Brodiaea Ave | |
| Secondary Noise Source: Moreno Beach Drive | |

**Equipment**

| Category | Type | Vendor | Model | Serial No. | Cert. Date | Note |
|---|---|---|---|---|---|---|
| Sound | Sound Level Meter | Larson Davis | LxT SE | 0006133 | 10/01/2024 | ✓ |
| | Microphone | Larson Davis | 377B02 | 346688 | 10/01/2024 | ✓ |
| | Preamp | Larson Davis | PRMLxT1L | 069947 | 09/30/2024 | ✓ |
| | Calibrator | Larson Davis | CAL200 | 17325 | 10/03/2024 | ✓ |

**Calibration Data**

| Offset Before Measurement Period | Offset After Measurement Period |
|---|---|
| Calibration Time: 3:22 PM | Calibration Time: 4:43 PM |
| Calibration Offset (+-): +0.13 | Calibration Offset (+-): +0.02 |

**Weather Data**

| | Sky Conditions: Clear | | | |
|---|---|---|---|---|
| Est. | Avg Wind Speed (mph) | Max Wind Speed | Temperature ° F | Humidity % |
| | 4 mph | 5.8 mph | 75° | 26.8% |

| Noise Meter Data Outputs (dBA) | | | |
|---|---|---|---|
| Leq | Lmin | Lmax | Ln |
| 61.7 | 37.3 | 76.7 | |

| Manual Traffic Counts (15 minutes in both directions) | | |
|---|---|---|
| Roadway Segment: Brodiaea Ave from Annadale Dr to Morningside Dr. | | |
| Autos | Medium Duty (2 axle 6 tires) | Heavy Duty (3+ axle) |
| 26 | 2 | 0 |

**Photo(s) of Measurement Location**

LTX 202

| Short-Term 15-Minute Noise Measurement Field Data Sheet | |
|---|---|
| Recorded By: C. Uminoshi | Date: 3/20/25 |
| Site Number: ST-3 | Job Number: 2025-053 |
| Start Time: 3:30 PM | End Time: 3:45 PM |
| Location/Address: Southbound Moreno Beach Drive Sidewalk, east of 14357 Moreno Beach Dr | |
| Primary Noise Source: Moreno Beach Drive | |
| Secondary Noise Source: | |

| Equipment | | | | | | |
|---|---|---|---|---|---|---|
| Category | Type | Vendor | Model | Serial No. | Cert. Date | Note |
| Sound | Sound Level Meter | Larson Davis | LxT SE | 0006133 | 10/01/2024 | ✓ |
| | Microphone | Larson Davis | 377B02 | 346688 | 10/01/2024 | ✓ |
| | Preamp | Larson Davis | PRMLxT1L | 069947 | 09/30/2024 | ✓ |
| | Calibrator | Larson Davis | CAL200 | 17325 | 10/03/2024 | ✓ |

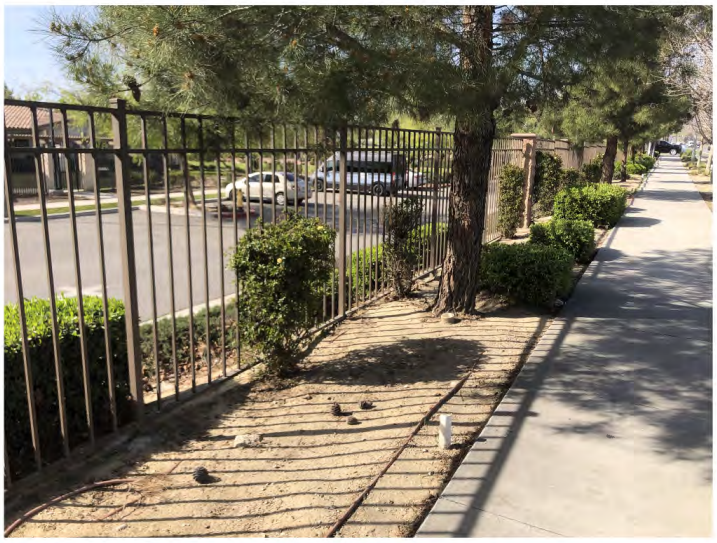
| Calibration Data | |
|---|---|
| Offset Before Measurement Period | Offset After Measurement Period |
| Calibration Time: 3:22 PM | Calibration Time: 4:43 PM |
| Calibration Offset (+-): +0.13 | Calibration Offset (+-): +0.02 |

| Weather Data | | | | |
|---|---|---|---|---|
| Est. | Sky Conditions: Clear | | | |
| | Avg Wind Speed (mph) | Max Wind Speed | Temperature ° F | Humidity % |
| | 4 mph | 5.8 mph | 75° | 28.8% |

| Noise Meter Data Outputs (dBA) | | | |
|---|---|---|---|
| Leq | Lmin | Lmax | Ln |
| 62.7 | 41.4 | 79.8 | |

| Manual Traffic Counts (15 minutes in both directions) | | |
|---|---|---|
| Roadway Segment: Moreno Beach Drive from Brodiaea to Marketplace | | |
| Autos | Medium Duty (2 axle 6 tires) | Heavy Duty (3+ axle) |
| 315 | 9 | 4 |

**Photo(s) of Measurement Location**



## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.202.s |
| **File Name on PC** | LxT_0006133-20250320 153046-LxT_Data.202.ldbin |
| **Serial Number** | 0006133 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.404 |
| **User** | |
| **Location** | |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2025-03-20 15:30:46 |
| **Stop** | 2025-03-20 15:46:14 |
| **Duration** | 00:15:27.9 |
| **Run Time** | 00:15:27.9 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre-Calibration** | 2025-03-20 15:24:13 |
| **Post-Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | | | |
|---|---|---|---|
| **RMS Weight** | A Weighting | | |
| **Peak Weight** | Z Weighting | | |
| **Detector** | Slow | | |
| **Preamplifier** | PRMLxT1L | | |
| **Microphone Correction** | Off | | |
| **Integration Method** | Exponential | | |
| **Overload** | 120.9 dB | | |
| | **A** | **C** | **Z** |
| **Under Range Peak** | 77.5 | 74.5 | **79.5** dB |
| **Under Range Limit** | **23.8** | 24.5 | 30.1 dB |
| **Noise Floor** | 14.7 | 15.3 | 21.0 dB |

| | **First** | **Second** | **Third** |
|---|---|---|---|
| **Instrument Identification** | | | |

## Results

| | | | |
|---|---|---|---|
| **$LA_{Seq}$** | 67.7 dB | | |
| **LASE** | 97.4 dB | | |
| **EAS** | 607.097 µPa²h | | |
| **EAS8** | 18.843 mPa²h | | |
| **EAS40** | 94.215 mPa²h | | |
| **$LZ_{pk\ (max)}$** | 2025-03-20 15:32:45 | 102.8 dB | |
| **$LAS_{max}$** | 2025-03-20 15:33:27 | 79.8 dB | |
| **$LAS_{min}$** | 2025-03-20 15:36:37 | 41.4 dB | |
| **SEA** | -99.94 dB | | |

| | Exceedance Counts | Duration |
|---|---|---|
| **LAS > 85.0 dB** | 0 | 0.0 s |
| **LAS > 115.0 dB** | 0 | 0.0 s |
| **LZpk > 135.0 dB** | 0 | 0.0 s |
| **LZpk > 137.0 dB** | 0 | 0.0 s |
| **LZpk > 140.0 dB** | 0 | 0.0 s |

| **Community Noise** | **LDN** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **LDEN** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** | |
|---|---|---|---|---|---|---|---|---|
| | 67.7 | 67.7 | -99.94 | 67.7 | 67.7 | -99.94 | -99.94 | dB |

| | | |
|---|---|---|
| **LCSeq** | 74.8 | dB |
| **LASeq** | 67.7 | dB |
| **LCSeq - LASeq** | 7.1 | dB |
| **LAleq** | 69.6 | dB |
| **LAeq** | 67.8 | dB |
| **LAleq - LAeq** | 1.8 | dB |

| | **A** | | **C** | | **Z** | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **Leq** | 67.8 | | | | | |
| **LS(max)** | 79.8 | 2025/03/20 15:33:27 | | | | |
| **LS(min)** | 41.4 | 2025/03/20 15:36:37 | | | | |
| **Lpk(max)** | | | | | 102.8 | 2025/03/20 15:32:45 |

| | |
|---|---|
| **Overload Count** | 0 |
| **Overload Duration** | 0.0 s |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.203.s |
| **File Name on PC** | LxT_0006133-20250320 155924-LxT_Data.203.ldbin |
| **Serial Number** | 0006133 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.404 |
| **User** | |
| **Location** | |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2025-03-20 15:59:24 |
| **Stop** | 2025-03-20 16:14:25 |
| **Duration** | 00:15:00.9 |
| **Run Time** | 00:15:00.9 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre-Calibration** | 2025-03-20 15:24:03 |
| **Post-Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | | | |
|---|---|---|---|
| **RMS Weight** | A Weighting | | |
| **Peak Weight** | Z Weighting | | |
| **Detector** | Slow | | |
| **Preamplifier** | PRMLxT1L | | |
| **Microphone Correction** | Off | | |
| **Integration Method** | Exponential | | |
| **Overload** | 120.9 dB | | |
| | **A** | **C** | **Z** |
| **Under Range Peak** | 77.5 | 74.5 | **79.5** dB |
| **Under Range Limit** | **23.8** | 24.5 | 30.1 dB |
| **Noise Floor** | 14.7 | 15.3 | 21.0 dB |

| | **First** | **Second** | **Third** |
|---|---|---|---|
| **Instrument Identification** | | | |

## Results

| | | | |
|---|---|---|---|
| **$LA_{Seq}$** | 61.7 dB | | |
| **LASE** | 91.2 dB | | |
| **EAS** | 148.059 µPa²h | | |
| **EAS8** | 4.733 mPa²h | | |
| **EAS40** | 23.666 mPa²h | | |
| **$LZ_{pk\ (max)}$** | 2025-03-20 15:59:26 | 98.5 dB | |
| **$LAS_{max}$** | 2025-03-20 16:02:36 | 76.7 dB | |
| **$LAS_{min}$** | 2025-03-20 16:06:12 | 37.3 dB | |
| **SEA** | -99.94 dB | | |

| | Exceedance Counts | Duration |
|---|---|---|
| **LAS > 85.0 dB** | 0 | 0.0 s |
| **LAS > 115.0 dB** | 0 | 0.0 s |
| **LZpk > 135.0 dB** | 0 | 0.0 s |
| **LZpk > 137.0 dB** | 0 | 0.0 s |
| **LZpk > 140.0 dB** | 0 | 0.0 s |

| **Community Noise** | **LDN** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **LDEN** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** | |
|---|---|---|---|---|---|---|---|---|
| | 61.7 | 61.7 | -99.94 | 61.7 | 61.7 | -99.94 | -99.94 | dB |

| | | |
|---|---|---|
| **LCSeq** | 66.5 | dB |
| **LASeq** | 61.7 | dB |
| **LCSeq - LASeq** | 4.8 | dB |
| **LAleq** | 64.1 | dB |
| **LAeq** | 61.7 | dB |
| **LAleq - LAeq** | 2.4 | dB |

| | **A** | | **C** | | **Z** | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **Leq** | 61.7 | | | | | |
| **LS(max)** | 76.7 | 2025/03/20 16:02:36 | | | | |
| **LS(min)** | 37.3 | 2025/03/20 16:06:12 | | | | |
| **Lpk(max)** | | | | | 98.5 | 2025/03/20 15:59:26 |

| | |
|---|---|
| **Overload Count** | 0 |
| **Overload Duration** | 0.0 s |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.204.s |
| **File Name on PC** | LxT_0006133-20250320 162331-LxT_Data.204.ldbin |
| **Serial Number** | 0006133 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.404 |
| **User** | |
| **Location** | |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2025-03-20 16:23:31 |
| **Stop** | 2025-03-20 16:38:32 |
| **Duration** | 00:15:00.9 |
| **Run Time** | 00:15:00.9 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre-Calibration** | 2025-03-20 15:24:03 |
| **Post-Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | | | |
|---|---|---|---|
| **RMS Weight** | A Weighting | | |
| **Peak Weight** | Z Weighting | | |
| **Detector** | Slow | | |
| **Preamplifier** | PRMLxT1L | | |
| **Microphone Correction** | Off | | |
| **Integration Method** | Exponential | | |
| **Overload** | 120.9 dB | | |
| | **A** | **C** | **Z** |
| **Under Range Peak** | 77.5 | 74.5 | **79.5** dB |
| **Under Range Limit** | **23.8** | 24.5 | 30.1 dB |
| **Noise Floor** | 14.7 | 15.3 | 21.0 dB |

| | **First** | **Second** | **Third** |
|---|---|---|---|
| **Instrument Identification** | | | |

## Results

| | | | |
|---|---|---|---|
| **$LA_{Seq}$** | 52.4 dB | | |
| **LASE** | 81.9 dB | | |
| **EAS** | 17.395 µPa²h | | |
| **EAS8** | 556.096 µPa²h | | |
| **EAS40** | 2.780 mPa²h | | |
| **$LZ_{pk\ (max)}$** | 2025-03-20 16:28:22 | 100.0 dB | |
| **$LAS_{max}$** | 2025-03-20 16:32:58 | 73.9 dB | |
| **$LAS_{min}$** | 2025-03-20 16:25:31 | 35.7 dB | |
| **SEA** | -99.94 dB | | |

| | Exceedance Counts | Duration |
|---|---|---|
| **LAS > 85.0 dB** | 0 | 0.0 s |
| **LAS > 115.0 dB** | 0 | 0.0 s |
| **LZpk > 135.0 dB** | 0 | 0.0 s |
| **LZpk > 137.0 dB** | 0 | 0.0 s |
| **LZpk > 140.0 dB** | 0 | 0.0 s |

| **Community Noise** | **LDN** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **LDEN** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** | |
|---|---|---|---|---|---|---|---|---|
| | 52.4 | 52.4 | -99.94 | 52.4 | 52.4 | -99.94 | -99.94 | dB |

| | | |
|---|---|---|
| **LCSeq** | 61.2 | dB |
| **LASeq** | 52.4 | dB |
| **LCSeq - LASeq** | 8.8 | dB |
| **LAIeq** | 59.0 | dB |
| **LAeq** | 52.4 | dB |
| **LAIeq - LAeq** | 6.6 | dB |

| | **A** | | **C** | | **Z** | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **Leq** | 52.4 | | | | | |
| **LS(max)** | 73.9 | 2025/03/20 16:32:58 | | | | |
| **LS(min)** | 35.7 | 2025/03/20 16:25:31 | | | | |
| **Lpk(max)** | | | | | 100.0 | 2025/03/20 16:28:22 |

| | |
|---|---|
| **Overload Count** | 0 |
| **Overload Duration** | 0.0 s |

## Summary

| | |
|---|---|
| **File Name on Meter** | LxT_Data.205.s |
| **File Name on PC** | LxT_0006133-20250320 164452-LxT_Data.205.ldbin |
| **Serial Number** | 0006133 |
| **Model** | SoundTrack LxT® |
| **Firmware Version** | 2.404 |
| **User** | |
| **Location** | |
| **Job Description** | |
| **Note** | |

## Measurement

| | |
|---|---|
| **Description** | |
| **Start** | 2025-03-20 16:44:52 |
| **Stop** | 2025-03-21 17:07:16 |
| **Duration** | 24:16:47.500 |
| **Run Time** | 24:16:47.500 |
| **Pause** | 00:00:00.0 |
| | |
| **Pre-Calibration** | 2025-03-20 15:24:03 |
| **Post-Calibration** | None |
| **Calibration Deviation** | --- |

## Overall Settings

| | | | | |
|---|---|---|---|---|
| **RMS Weight** | A Weighting | | | |
| **Peak Weight** | Z Weighting | | | |
| **Detector** | Slow | | | |
| **Preamplifier** | PRMLxT1L | | | |
| **Microphone Correction** | Off | | | |
| **Integration Method** | Exponential | | | |
| **Overload** | 120.9 dB | | | |
| | **A** | **C** | **Z** | |
| **Under Range Peak** | 77.5 | 74.5 | **79.5** dB | |
| **Under Range Limit** | **23.8** | 24.5 | 30.1 dB | |
| **Noise Floor** | 14.7 | 15.3 | 21.0 dB | |
| | **First** | **Second** | **Third** | |
| **Instrument Identification** | | | | |

## Results

| | | | |
|---|---|---|---|
| **$LA_{Seq}$** | 62.6 dB | | |
| **LASE** | 112.0 dB | | |
| **EAS** | 17.673 $mPa^2h$ | | |
| **EAS8** | 5.823 $mPa^2h$ | | |
| **EAS40** | 29.115 $mPa^2h$ | | |
| **$LZ_{pk\ (max)}$** | 2025-03-20 16:48:43 | 121.4 dB | |
| **$LAS_{max}$** | 2025-03-21 03:10:45 | 102.0 dB | |
| **$LAS_{min}$** | 2025-03-21 01:05:18 | 32.1 dB | |
| **SEA** | 134.2 dB | | |

| | Exceedance Counts | Duration |
|---|---|---|
| **LAS > 85.0 dB** | 8 | 37.6 s |
| **LAS > 115.0 dB** | 0 | 0.0 s |
| **LZpk > 135.0 dB** | 0 | 0.0 s |
| **LZpk > 137.0 dB** | 0 | 0.0 s |
| **LZpk > 140.0 dB** | 0 | 0.0 s |

| **Community Noise** | **LDN** | **LDay 07:00-22:00** | **LNight 22:00-07:00** | **LDEN** | **LDay 07:00-19:00** | **LEvening 19:00-22:00** | **LNight 22:00-07:00** | |
|---|---|---|---|---|---|---|---|---|
| | 70.2 | 61.5 | 64.1 | 70.3 | 62.0 | 58.6 | 64.1 | dB |

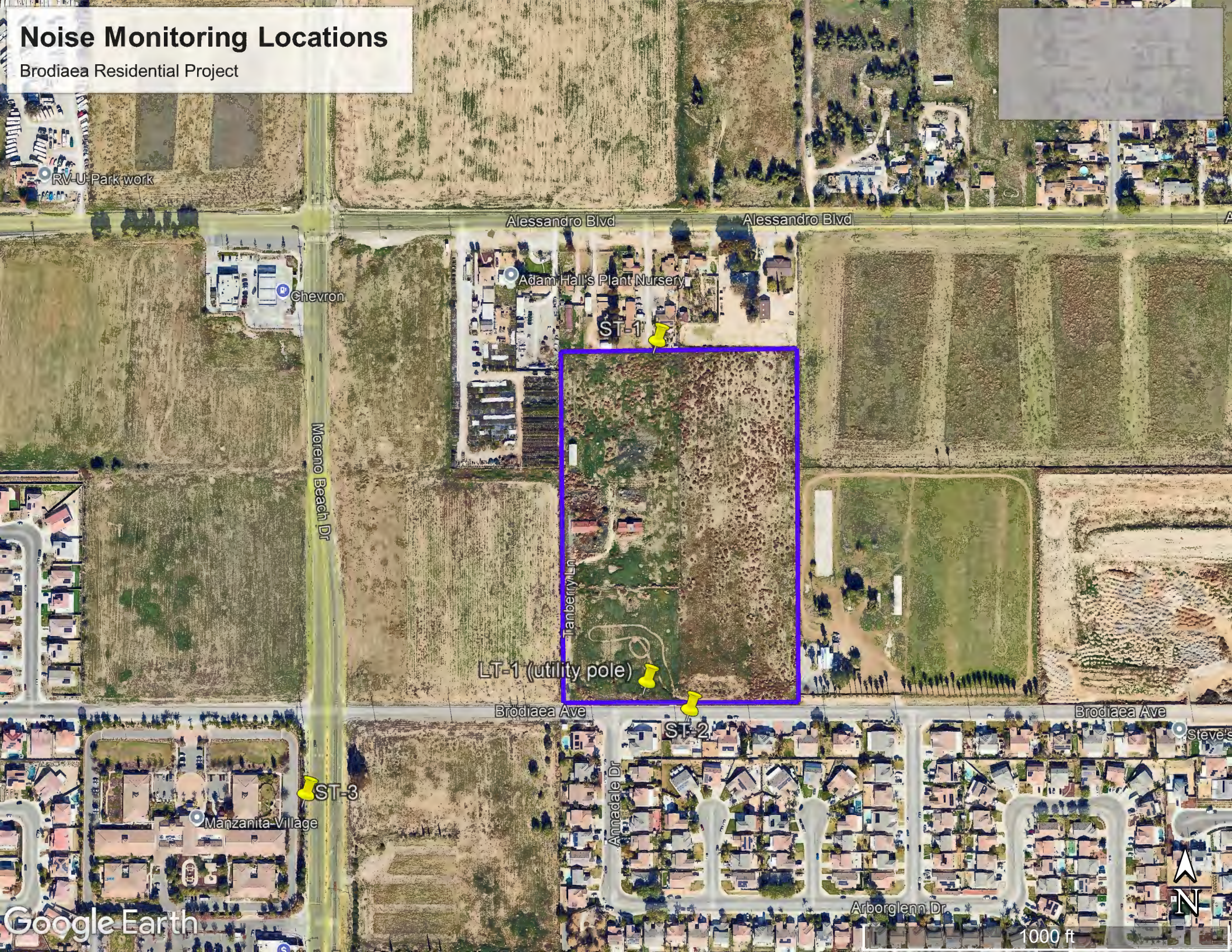
| | | |
|---|---|---|
| **LCSeq** | 66.5 | dB |
| **LASeq** | 62.6 | dB |
| **LCSeq - LASeq** | 3.9 | dB |
| **LAIeq** | 66.4 | dB |
| **LAeq** | 62.7 | dB |
| **LAIeq - LAeq** | 3.7 | dB |

| | **A** | | **C** | | **Z** | |
|---|---|---|---|---|---|---|
| | **dB** | **Time Stamp** | **dB** | **Time Stamp** | **dB** | **Time Stamp** |
| **Leq** | 62.7 | | | | | |
| **LS(max)** | 102.0 | 2025/03/21 3:10:45 | | | | |
| **LS(min)** | 32.1 | 2025/03/21 1:05:18 | | | | |
| **Lpk(max)** | | | | | 121.4 | 2025/03/20 16:48:43 |

| | |
|---|---|
| **Overload Count** | 2 |
| **Overload Duration** | 4.0 s |

# Noise Monitoring Locations

Brodiaea Residential Project



Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 06/24/2025
Case Description: Moreno Valley - Wilmont Project

**** Receptor #1 ****

| Description | Land Use | Baselines (dBA) Daytime | Evening | Night |
|---|---|---|---|---|
| Residential receptor 50 feet | Residential | 52.4 | 52.4 | 35.7 |

Equipment

| Description | Impact Device | Usage (%) | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Backhoe | No | 40 | | 77.6 | 50.0 | 0.0 |
| Concrete Mixer Truck | No | 40 | | 78.8 | 50.0 | 0.0 |
| Compressor (air) | No | 40 | | 77.7 | 50.0 | 0.0 |
| Concrete Pump Truck | No | 20 | | 81.4 | 50.0 | 0.0 |
| Crane | No | 16 | | 80.6 | 50.0 | 0.0 |
| Dozer | No | 40 | | 81.7 | 50.0 | 0.0 |
| Dump Truck | No | 40 | | 76.5 | 50.0 | 0.0 |
| Excavator | No | 40 | | 80.7 | 50.0 | 0.0 |
| Flat Bed Truck | No | 40 | | 74.3 | 50.0 | 0.0 |
| Front End Loader | No | 40 | | 79.1 | 50.0 | 0.0 |
| Generator | No | 50 | | 80.6 | 50.0 | 0.0 |
| Grader | No | 40 | 85.0 | | 50.0 | 0.0 |
| Man Lift | No | 20 | | 74.7 | 50.0 | 0.0 |
| Paver | No | 50 | | 77.2 | 50.0 | 0.0 |
| Pickup Truck | No | 40 | | 75.0 | 50.0 | 0.0 |
| Pneumatic Tools | No | 50 | | 85.2 | 50.0 | 0.0 |
| Roller | No | 20 | | 80.0 | 50.0 | 0.0 |
| Scraper | No | 40 | | 83.6 | 50.0 | 0.0 |
| Tractor | No | 40 | 84.0 | | 50.0 | 0.0 |
| Welder / Torch | No | 40 | | 74.0 | 50.0 | 0.0 |

Results

| | Calculated (dBA) | | Noise Limits (dBA) Day | | Evening | | Night | | Noise Limit Exceedance (dBA) Day | | Evening | | Night | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Backhoe | 77.6 | 73.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Concrete Mixer Truck | 78.8 | 74.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Compressor (air) | 77.7 | 73.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 81.4 | 74.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crane | 80.6 | 72.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Dozer | 81.7 | 77.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Dump Truck | 76.5 | 72.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Excavator | 80.7 | 76.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Flat Bed Truck | 74.3 | 70.3 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Front End Loader | 79.1 | 75.1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Generator | 80.6 | 77.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Grader | 85.0 | 81.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Man Lift | 74.7 | 67.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Paver | 77.2 | 74.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Pickup Truck | 75.0 | 71.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Pneumatic Tools | 85.2 | 82.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Roller | 80.0 | 73.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Scraper | 83.6 | 79.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tractor | 84.0 | 80.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Welder / Torch | 74.0 | 70.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total | 85.2 | 89.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**** Receptor #2 ****

| Description | Land Use | Baselines (dBA) Daytime | Evening | Night |
|---|---|---|---|---|
| Residential receptor 500 feet | Residential | 61.7 | 61.7 | 37.3 |

Equipment

| Description | Impact Device | Usage (%) | Spec Lmax (dBA) | Actual Lmax (dBA) | Receptor Distance (feet) | Estimated Shielding (dBA) |
|---|---|---|---|---|---|---|
| Backhoe | No | 40 | | 77.6 | 500.0 | 0.0 |
| Concrete Mixer Truck | No | 40 | | 78.8 | 500.0 | 0.0 |
| Compressor (air) | No | 40 | | 77.7 | 500.0 | 0.0 |
| Concrete Pump Truck | No | 20 | | 81.4 | 500.0 | 0.0 |
| Crane | No | 16 | | 80.6 | 500.0 | 0.0 |
| Dozer | No | 40 | | 81.7 | 500.0 | 0.0 |
| Dump Truck | No | 40 | | 76.5 | 500.0 | 0.0 |
| Excavator | No | 40 | | 80.7 | 500.0 | 0.0 |
| Flat Bed Truck | No | 40 | | 74.3 | 500.0 | 0.0 |
| Front End Loader | No | 40 | | 79.1 | 500.0 | 0.0 |
| Generator | No | 50 | | 80.6 | 500.0 | 0.0 |
| Grader | No | 40 | 85.0 | | 500.0 | 0.0 |
| Man Lift | No | 20 | | 74.7 | 500.0 | 0.0 |
| Paver | No | 50 | | 77.2 | 500.0 | 0.0 |
| Pickup Truck | No | 40 | | 75.0 | 500.0 | 0.0 |
| Pneumatic Tools | No | 50 | | 85.2 | 500.0 | 0.0 |
| Roller | No | 20 | | 80.0 | 500.0 | 0.0 |
| Scraper | No | 40 | | 83.6 | 500.0 | 0.0 |
| Tractor | No | 40 | 84.0 | | 500.0 | 0.0 |
| Welder / Torch | No | 40 | | 74.0 | 500.0 | 0.0 |

Results

| | Calculated (dBA) | | Noise Limits (dBA) Day | | Evening | | Night | | Noise Limit Exceedance (dBA) Day | | Evening | | Night | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Equipment | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq | Lmax | Leq |
| Backhoe | 57.6 | 53.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Concrete Mixer Truck | 58.8 | 54.8 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Compressor (air) | 57.7 | 53.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Concrete Pump Truck | 61.4 | 54.4 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Crane | 60.6 | 52.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Dozer | 61.7 | 57.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Dump Truck | 56.5 | 52.5 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Excavator | 60.7 | 56.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Flat Bed Truck | 54.3 | 50.3 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Front End Loader | 59.1 | 55.1 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Generator | 60.6 | 57.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Grader | 65.0 | 61.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Man Lift | 54.7 | 47.7 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Paver | 57.2 | 54.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Pickup Truck | 55.0 | 51.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Pneumatic Tools | 65.2 | 62.2 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Roller | 60.0 | 53.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Scraper | 63.6 | 59.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Tractor | 64.0 | 60.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Welder / Torch | 54.0 | 50.0 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Total | 65.2 | 69.6 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |

**Traffic Noise Calculator: FHWA 77-108**

**Project Title: Moreno Valley - Wilmont Residential**

| | Output | | | | | | Inputs | | | | | | | | | | | | | Auto Inputs | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | dBA at 50 feet | | | Distance to CNEL Contour | | | | | | | | | | | | | | | | | |
| ID | $L_{eq\text{-}24hr}$ | $L_{dn}$ | CNEL | 70 dBA | 65 dBA | 60 dBA | Peak Time | Roadway Segment | ADT | Posted Speed Limit | Grade | % Autos | % Med Trucks | % Heavy Trucks | % Daytime | % Evening | % Night | Number of Lanes | Site Condition | Distance to Reciever | Ground Absorption | Lane Distance |
| 1 | 55.5 | 58.4 | 59.0 | 9 | 20 | 43 | Existing AM | Moreno Beach & Brodiaea | 1,244 | 45 | 0.0% | 97.4% | 1.8% | 0.7% | 75.5% | 14.0% | 10.5% | 2 | Soft | 50 | 0.5 | 20 |
| 2 | 55.8 | 58.7 | 59.3 | 10 | 21 | 45 | Existing + Project AM | Moreno Beach & Brodiaea | 1,338 | 45 | 0.0% | 97.4% | 1.8% | 0.7% | 75.5% | 14.0% | 10.5% | 2 | Soft | 50 | 0.5 | 20 |
| 3 | 56.3 | 59.2 | 59.8 | 10 | 23 | 49 | Exising PM | Moreno Beach & Brodiaea | 1,507 | 45 | 0.0% | 97.4% | 1.8% | 0.7% | 75.5% | 14.0% | 10.5% | 2 | Soft | 50 | 0.5 | 20 |
| 4 | 56.7 | 59.5 | 60.2 | 11 | 24 | 51 | Existing + Project PM | Moreno Beach & Brodiaea | 1,633 | 45 | 0.0% | 97.4% | 1.8% | 0.7% | 75.5% | 14.0% | 10.5% | 2 | Soft | 50 | 0.5 | 20 |