Appendix G
Noise Model Result
# TRAFFIC NOISE LEVELS

**Project Number:** 100018889  
**Project Name:** 300 Airport Boulevard EIR

## Background Information

- **Model Description:** FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
- **Analysis Scenario(s):** Future Cumulative
- **Source of Traffic Volumes:** Project Traffic Report
- **Community Noise Descriptor:**
  - $L_{dn}$:
  - $CNEL$:

## Assumed 24-Hour Traffic Distribution:

<table>
<thead>
<tr>
<th>Source of Traffic Volumes</th>
<th>Total ADT Volumes</th>
<th>Medium-Duty Trucks</th>
<th>Heavy-Duty Trucks</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>77.70%</td>
<td>12.70%</td>
<td>9.60%</td>
</tr>
<tr>
<td>Medium-Duty Trucks</td>
<td>87.43%</td>
<td>5.05%</td>
<td>7.52%</td>
</tr>
<tr>
<td>Heavy-Duty Trucks</td>
<td>89.10%</td>
<td>2.84%</td>
<td>8.06%</td>
</tr>
</tbody>
</table>

## Traffic Noise Levels

### Analysis Condition

#### Roadway Segment

<table>
<thead>
<tr>
<th>Land Use</th>
<th>Lanes</th>
<th>Median Width</th>
<th>Peak Hour Volume</th>
<th>ADT Volume</th>
<th>Design Speed (mph)</th>
<th>Dist. from Center to Receptor</th>
<th>Alpha Factor</th>
<th>Barrier Att.</th>
<th>Medium Trucks</th>
<th>Heavy Trucks</th>
<th>Peak Hour dB(A)</th>
<th>24-Hour dB(A)</th>
</tr>
</thead>
</table>

#### Existing Calibration

- **Airport Blvd, Bayside Park:** Park 4 0 468 4,680 35 30 0 0 1.8% 0.7% 65.4 64.2
- **Airport Blvd, Anza Blvd:** Hotel 4 0 628 6,280 30 30 0 -2 1.8% 0.7% 63.4 62.3
- **Project Site, Airport Blvd:** Project Site 4 5 320 3,200 35 30 0 0 1.8% 0.7% 64.1 63.0
- **Coyote Point County Park:** Park 4 12 1,407 14,070 35 40 0 -8 1.8% 0.7% 60.9 59.8

#### Existing Conditions

- **Airport Blvd, Bayside Park:** Park 4 0 359 3,590 35 30 0 0 1.8% 0.7% 64.2 63.1
- **Airport Blvd, Anza Blvd:** Hotel 4 0 631 6,310 30 30 0 -2 1.8% 0.7% 63.4 62.3
- **Project Site, Airport Blvd:** Project Site 4 5 482 4,820 35 30 0 0 1.8% 0.7% 65.9 64.8
- **Coyote Point County Park:** Park 4 12 1,407 14,070 35 40 0 -8 1.8% 0.7% 60.9 59.8

#### Scenario A: Existing + 300

- **Airport Blvd, Bayside Park:** Park 4 0 591 5,910 35 30 0 0 1.8% 0.7% 66.4 65.3
- **Airport Blvd, Anza Blvd:** Hotel 4 0 664 6,640 30 30 0 -2 1.8% 0.7% 63.6 62.5
- **Project Site, Airport Blvd:** Project Site 4 5 598 5,980 35 30 0 0 1.8% 0.7% 66.9 65.7
- **Coyote Point County Park:** Park 4 12 1,533 15,330 35 40 0 -8 1.8% 0.7% 61.3 60.1

#### Scenario B: Existing + 300 & 350

- **Airport Blvd, Bayside Park:** Park 4 0 600 6,000 35 30 0 0 1.8% 0.7% 66.5 65.3
- **Airport Blvd, Anza Blvd:** Hotel 4 0 668 6,680 30 30 0 -2 1.8% 0.7% 63.7 62.5
- **Project Site, Airport Blvd:** Project Site 4 5 653 6,530 35 30 0 0 1.8% 0.7% 67.2 66.1
- **Coyote Point County Park:** Park 4 12 1,565 15,850 35 40 0 -8 1.8% 0.7% 61.4 60.3

#### Scenario C: Cumulative + 300

- **Airport Blvd, Bayside Park:** Park 4 0 760 7,600 35 30 0 0 1.8% 0.7% 67.5 66.3
- **Airport Blvd, Anza Blvd:** Hotel 4 0 1,209 12,090 30 30 0 -2 1.8% 0.7% 66.2 65.1
- **Project Site, Airport Blvd:** Project Site 4 5 933 9,330 35 30 0 0 1.8% 0.7% 68.8 67.6
- **Coyote Point County Park:** Park 4 12 2,050 20,500 35 40 0 -8 1.8% 0.7% 62.6 61.4

#### Scenario D: Cumulative + 300 + 350

- **Airport Blvd, Bayside Park:** Park 4 0 767 7,670 35 30 0 0 1.8% 0.7% 67.5 66.4
- **Airport Blvd, Anza Blvd:** Hotel 4 0 1,199 11,990 30 30 0 -2 1.8% 0.7% 66.2 65.1