

Appendix F

Inland Star Noise Measurements



Existing Measurements



TRAFFIC NOISE ANALYSIS TOOL

Project Name: Inland Star IS/MND
Project Number: D160573.04
Analysis Scenario: Existing
Source of Traffic Volumes: Fehr and Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)	
			Auto	MT	HT	Auto	MT	HT		
S Wilmington Ave										
Between E Del Amo Blvd and E Dominguez St	Hard	50	40	40	40	1753	36	18	69.0	
Between E Dominguez Street and E Carson St	Hard	50	40	40	40	1888	39	19	69.3	
Between E Carson Street and E I-405 NB On/Off Ramps	Hard	50	40	40	40	1269	26	13	67.6	
Between E I-405 NB On/Off Ramps and I-405 SB On/Off Ramps	Hard	50	40	40	40	1892	39	20	69.3	

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998). The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5. Accuracy of the calculation is within ± 0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.

Existing with Project Measurements



TRAFFIC NOISE ANALYSIS TOOL

Project Name: Inland Star IS/MND
Project Number: D160573.04
Analysis Scenario: Existing With Project
Source of Traffic Volumes: Fehr and Peers

Roadway Segment	Ground Type	Distance from Roadway to Receiver (feet)	Speed (mph)			Peak Hour Volume			Peak Hour Noise Level (Leq(h) dBA)
			Auto	MT	HT	Auto	MT	HT	
S Wilmington Ave									
Between E Del Amo Blvd and E Dominguez St	Hard	50	40	40	40	1777	37	18	69.1
Between E Dominguez Street and E Carson St	Hard	50	40	40	40	1927	40	20	69.4
Between E I-405 NB On/Off Ramps and I-405 SB On/Off Ramps	Hard	50	40	40	40	1301	27	13	67.7
Between Existing Driveway and Lomita Blvd	Hard	50	40	40	40	1909	39	20	69.4

Model Notes:

The calculation is based on the methodology described in FHWA Traffic Noise Model Technical Manual (1998).

The peak hour noise level at 50 feet was validated with the results from FHWA Traffic Noise Model Version 2.5.

Accuracy of the calculation is within ±0.1 dB when comparing to TNM results.

Noise propagation greater than 50 feet is based on the following assumptions:

For hard ground, the propagation rate is 3 dB per doubling the distance.

For soft ground, the propagation rate is 4.5 dB per doubling the distance.

Vehicles are assumed to be on a long straight roadway with cruise speed.

Roadway grade is less than 1.5%.