



Appendix H

*Noise Measurements
Noise Modeling Data Sheets*

Location	Time	LAeq	LAE	LAmx	LAmn	LA10	LA33	LA50	LA90	LA95	Lppeak
1	6/5/2013 9:49	51.7	82.5	69.6	45.9	53.8	50.9	49.8	47.8	47.4	98.2
2	6/5/2013 10:55	50.4	81.2	63	44	52.1	49.9	49.1	47.3	46.8	99.1
3	6/5/2013 11:20	49.2	80	67.9	43.7	49.9	47.6	47	45.7	45.3	99.3
4	6/5/2013 10:30	56.9	87.7	80.8	48	54.8	53.4	52.8	50.9	50.1	104.2

Storke north of Hollister - Existing
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke north of Hollister

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2755.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	470.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	20.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	41.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	95.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.5

Storke north of Hollister - existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke north of Hollister - existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2788.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	476.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	21.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	41.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	96.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.5

Storke north of Hollister - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke north of Hollister - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	3320.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	566.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	24.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	49.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	114.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	76.3

Storke north of Hollister - Cumulative plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke north of Hollister - Cumulative plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	3353.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	572.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	25.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	49.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	115.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	76.3

Storke south of Hollister
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke south of Hollister

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1744.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	297.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	13.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	26.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	60.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.5

Storke south of Hollister - existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke south of Hollister - existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1758.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	300.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	13.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	26.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	60.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.5

Storke south of Hollister - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke south of Hollister - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2255.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	385.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	17.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	33.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	77.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.6

Storke south of Hollister - Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Storke south of Hollister - Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2269.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	387.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	17.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	33.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	78.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.6

Hollister west of Storke
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister west of Storke

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2143.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	366.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	16.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	32.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	74.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.4

Hollister west of Storke - existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister west of Storke - existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2148.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	366.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	16.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	32.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	74.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.4

Hollister west of Storke - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister west of Storke - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2534.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	432.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	19.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	37.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	87.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.1

Hollister west of Storke - Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister west of Storke - Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2539.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	433.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	19.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	37.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	87.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.1

Hollister east of Storke
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Storke

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1728.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	295.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	13.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	25.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	59.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.5

Hollister east of Storke - existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Storke - existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1747.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	298.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	13.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	26.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	60.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	73.5

Hollister east of Storke - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Storke - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2397.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	409.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	18.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	35.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	82.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.9

Hollister east of Storke - Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Storke - Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2416.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	412.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	18.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	36.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	83.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.9

Hollister east of Los Carneros
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Los Carneros

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1304.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	222.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	10.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	19.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	45.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	72.2

Hollister east of Los Carneros - existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Los Carneros - existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1314.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	244.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	10.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	19.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	45.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	72.4

Hollister east of Los Carneros - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Los Carneros - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1529.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	261.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	11.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	23.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	53.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	72.9

Hollister east of Los Carneros - Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Hollister east of Los Carneros - Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1539.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	262.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	11.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	23.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	53.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	72.9

Los Carneros South of US 101 SB Ramps
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Los Carneros south of US 101 SB Ramps

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	1980.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	338.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	15.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	29.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	68.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.1

Los Carneros south of US 101 SB Ramps- existing plus project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Los Carneros south of US 101 SB Ramps- existing plus project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2004.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	324.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	15.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	30.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	69.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	74.0

Los Carneros south of US 101 SB Ramps- Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Los Carneros south of US 101 SB Ramps- Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2641.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	450.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	19.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	39.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	91.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.3

Los Carneros south of US 101 SB Ramps- Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Los Carneros south of US 101 SB Ramps- Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	2665.0
Average automobile speed (mph):	45.0
Medium truck volume (v/h):	454.0
Average medium truck speed (mph):	45.0
Heavy truck volume (v/h):	20.0
Average heavy truck speed (mph):	45.0
Bus volume (v/h):	39.0
Average bus speed (mph):	45.0
Motorcycle volume (v/h):	92.0
Average Motorcycle speed (mph):	45.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	50.0
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	75.3

Cortona Drive - Existing
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Cortona Drive - Existing

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	218.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	37.0
Average medium truck speed (mph):	25.0
Heavy truck volume (v/h):	2.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	3.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	8.0
Average Motorcycle speed (mph):	25.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	32.8
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	60.9

Cortona Drive - Existing Plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Cortona Drive - Existing plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	266.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	45.0
Average medium truck speed (mph):	25.0
Heavy truck volume (v/h):	2.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	4.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	9.0
Average Motorcycle speed (mph):	25.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	32.8
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	61.7

Cortona Drive - Cumulative
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Cortona Drive - Cumulative

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	255.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	44.0
Average medium truck speed (mph):	25.0
Heavy truck volume (v/h):	2.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	4.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	9.0
Average Motorcycle speed (mph):	25.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	32.8
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	61.6

Cortona Drive - Cumulative plus Project
* * * * CASE INFORMATION * * * *

* * * * Results calculated with TNM Version 2.5 * * * *

Cortona Drive - Cumulative plus Project

* * * * TRAFFIC VOLUME/SPEED INFORMATION * * * *

Automobile volume (v/h):	302.0
Average automobile speed (mph):	25.0
Medium truck volume (v/h):	52.0
Average medium truck speed (mph):	25.0
Heavy truck volume (v/h):	2.0
Average heavy truck speed (mph):	25.0
Bus volume (v/h):	4.0
Average bus speed (mph):	25.0
Motorcycle volume (v/h):	10.0
Average Motorcycle speed (mph):	25.0

* * * * TERRAIN SURFACE INFORMATION * * * *

Terrain surface: hard

* * * * RECEIVER INFORMATION * * * *

DESCRIPTION OF RECEIVER # 1

Sensitive Receptor

Distance from center of 12-ft wide, single lane roadway (ft):	32.8
A-weighted Hourly Equivalent Sound Level without Barrier (dBA):	62.2

Site DNL Calculator

For more information on using the noise calculator, to access the user guidebook, or send comments, please visit the following page:

[Day/Night Noise Level Electronic Assessment Tool](#)

Guidelines:

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	300	300	300
Distance to Stop Sign			
Average Speed	65	65	55
Average Daily Trips (ADT)	34200	5560	240
Night Fraction of ADT	5	5	5
Road Gradient (%)			0
Vehicle DNL	61.2554	53.3659	54.1675
Calculate Road #1 DNL	62.5355	Reset	

Railroad #1 Track Identifier:

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>

Effective Distance	<input type="text"/>	120
Average Train Speed	<input type="text"/>	35
Engines per Train	<input type="text"/>	1
Railway cars per Train	<input type="text"/>	8
Average Train Operations (ATO)	<input type="text"/>	12
Night Fraction of ATO	<input type="text"/>	25
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL	<input type="text"/>	71.5822
<input type="button" value="Calculate Rail #1 DNL"/>	71.5822	<input type="button" value="Reset"/>

Railroad #2 Track Identifier:

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance	<input type="text"/>	120
Average Train Speed	<input type="text"/>	35
Engines per Train	<input type="text"/>	2
Railway cars per Train	<input type="text"/>	50
Average Train Operations (ATO)	<input type="text"/>	18
Night Fraction of ATO	<input type="text"/>	39
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL	<input type="text"/>	77.7764
<input type="button" value="Calculate Rail #2 DNL"/>	77.7764	<input type="button" value="Reset"/>

Airport Noise Level

Loud Impulse Sounds? Yes No

Combined DNL for all Road and Rail sources

Combined DNL including Airport

Site DNL with Loud Impulse Sound

Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative**
Cancel the project at this location [DNL Calculator](#)
- **Other Reasonable Alternatives**
Choose an alternate site [DNL Calculator](#)
- **Mitigation**
 - **Contact your Field or Regional Environmental Officer - [Environmental Contacts](#)**
 - **Increase mitigation in the building walls (only**

- effective if no outdoor, noise sensitive areas).
- **Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses**
[DNL Calculator](#)
 - **Incorporate natural or man-made barriers.** See [The Noise Guidebook](#)
 - **Construct noise barrier.** See the [Barrier Performance Module](#)

Refresh

Site DNL Calculator

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Guidelines:

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- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

Site ID

Record Date

User's Name

Road # 1 Name:

Road #1			
Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	760	760	760
Distance to Stop Sign			
Average Speed	65	65	55
Average Daily Trips (ADT)	34200	5560	240
Night Fraction of ADT	5	5	5
Road Gradient (%)			0
Vehicle DNL	55.2	47.3105	48.112
Calculate Road #1 DNL	56.4801	Reset	

Railroad #1 Track Identifier:

Rail # 1		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>

Effective Distance	<input type="text"/>	580
Average Train Speed	<input type="text"/>	35
Engines per Train	<input type="text"/>	1
Railway cars per Train	<input type="text"/>	8
Average Train Operations (ATO)	<input type="text"/>	12
Night Fraction of ATO	<input type="text"/>	25
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL	<input type="text"/>	61.3185
<input type="button" value="Calculate Rail #1 DNL"/>	61.3185	<input type="button" value="Reset"/>

Railroad #2 Track Identifier:

Rail # 2		
Train Type	Electric <input type="checkbox"/>	Diesel <input checked="" type="checkbox"/>
Effective Distance	<input type="text"/>	580
Average Train Speed	<input type="text"/>	35
Engines per Train	<input type="text"/>	2
Railway cars per Train	<input type="text"/>	50
Average Train Operations (ATO)	<input type="text"/>	18
Night Fraction of ATO	<input type="text"/>	39
Railway whistles or horns?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Bolted Tracks?	Yes: <input type="checkbox"/> No: <input type="checkbox"/>	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
Train DNL	<input type="text"/>	67.5127
<input type="button" value="Calculate Rail #2 DNL"/>	67.5127	<input type="button" value="Reset"/>

Airport Noise Level

Loud Impulse Sounds? Yes No

Combined DNL for all Road and Rail sources

Combined DNL including Airport

Site DNL with Loud Impulse Sound

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Refresh