

El Camino Project
Appendix H3.1: Emission Rates
August 2025

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Construction Emissions for AERMOD Inputs
Operational Emissions for AERMOD Inputs
SCAQMD Risk Tool- Emissions Calculator

El Camino Project

Appendix H3.1: Emission Rates

Construction Emissions for AERMOD Inputs

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Appendix H3.1: Emission Rates

Construction Emissions for AERMOD Inputs

Sheet 1: Phase 1 and Phase 2 Unmitigated Construction Emissions for HRA AERMOD Inputs Summary

Source	Description	X	Y	Size (m ²)	Size (m)	% Size	Emissions Rate (g/s)	Emissions Rate (g/(s-m ²))
PAREA01	P1_Y1_On-Demo-W	446903.55	3771862.17	14,499.6	--	28%	6.30E-04	4.35E-08
PAREA02	P1_Y1_On-Demo-C	447016.74	3771862.17	18,861.0	--	36%	8.20E-04	4.35E-08
PAREA03	P1_Y1_On-Demo-E	447139.9	3771860.87	18,493.9	--	36%	8.04E-04	4.35E-08
PAREA04	P1_Y1_On-Main-NW	446900.51	3772021.33	27,027.5	--	27%	1.88E-03	6.96E-08
PAREA05	P1_Y1_On-Main-NE	447072.25	3772019.16	23,471.3	--	23%	1.63E-03	6.96E-08
PAREA06	P1_Y1_On-Main-SW	446903.55	3771863.47	26,411.4	--	26%	1.84E-03	6.96E-08
PAREA07	P1_Y1_On-Main-SE	447096.1	3771860.87	24,943.6	--	24%	1.74E-03	6.96E-08
PAREA08	P1_Y1_On-Remod	446904.42	3771825.74	8,035.4	--	100%	5.26E-04	6.54E-08
PAREA09	P1_Y2_On-Main-NW	446900.51	3772021.33	27,027.5	--	27%	1.94E-03	7.18E-08
PAREA10	P1_Y2_On-Main-NE	447072.25	3772019.16	23,471.3	--	23%	1.68E-03	7.18E-08
PAREA11	P1_Y2_On-Main-SW	446903.55	3771863.47	26,411.4	--	26%	1.90E-03	7.18E-08
PAREA12	P1_Y2_On-Main-SE	447096.1	3771860.87	24,943.6	--	24%	1.79E-03	7.18E-08
PAREA13	P1_Y2_On-Remod	446904.42	3771825.74	8,035.4	--	100%	8.45E-04	1.05E-07
PAREA14	P1_Y2_On-ParkingStruct	446932.61	3771817.93	9,949.4	--	100%	1.87E-03	1.88E-07
PAREA15	P1_Y2_On-Paving_S+W	446903.98	3771836.15	28,176.4	--	100%	9.43E-04	3.35E-08
PAREA16	P1_Y2_On-Paving_N+E	446898.78	3772022.63	30,300.6	--	100%	5.34E-04	1.76E-08
PAREA17	P1_Y2_Off-Haven	446864.52	3772018.73	10,394.5	--	100%	8.47E-04	8.15E-08
PAREA18	P1_Y2_Off-6th	446903.12	3771703.88	11,051.9	--	100%	8.47E-04	7.67E-08
PAREA19	P1_Y1_On-Well	447209.46	3771761.19	2,960.9	--	100%	9.62E-04	3.25E-07
PAREA20	P1_Y1_On-Well_Well-Const	447209.46	3771761.19	2,960.6	--	100%	8.95E-04	3.02E-07
PAREA21	P1_Y2_On-Well	447209.46	3771761.19	2,960.6	--	100%	3.92E-04	1.33E-07
PAREA22	P2_Y1_On-7th Street	447006.48	3772109.9	16,597.3	--	100%	2.63E-03	1.58E-07
PAREA23	P2_Y1_On-CoGen	447004.31	3771970.24	53,220.6	--	100%	1.89E-03	3.55E-08
PAREA24	P2_Y2_On-7th-Street	447006.48	3772109.9	16,596.5	--	100%	2.99E-04	1.80E-08

Source	Description	X	Y	Size (m ²)	Size (m)	Size (ft)	% of Trip Distance	Emissions Rate (g/s)	Emissions Rate (g/(s-m ²))
ARLN01	P1_Y1_Const-Off	446880.7	3771826.98	39,762	1,325.4	4,347.3	7.0%	7.89E-05	1.98E-09
ARLN02	P1_Y2_Const-Off	446880.7	3771826.98	39,762	1,325.4	4,347.3	7.0%	8.73E-05	2.20E-09
ARLN03	P2_Y1_Off-Utica	447081.39	3772118.55	7,791	556.5	1,825.3	2.7%	9.05E-06	1.16E-09
ARLN04	P2_Y1_Off-6th	447273.49	3771686.92	23,622	787.4	2,582.7	3.8%	1.28E-05	5.42E-10
ARLN05	P2_Y1_Off-Utica	447081.39	3772118.55	7,791	556.5	1,825.3	2.7%	3.61E-07	4.63E-11
ARLN06	P2_Y1_Off-6th	447273.49	3771686.92	23,622.0	787.4	2,582.7	3.8%	5.10E-07	2.16E-11

Table 3: Haul and Vendor Trips Data						
Phase 1						
Construction Phase	Days	Haul Trips	Vendor	Total Trips	Mi/Trip	Miles
Demo - Ex Build	70	29	0	2,030	28	56,840
Site Prep - Landscape	110	0	4	440	10.2	4,488
Site Prep - Well Prep	11	45	0	495	28	13,860
Site Prep - Well Prep	11	0	3	33	10.2	337
Grading - Sitework Grad & Util	125	122	0	15,250	28	427,000
Grading - Rough Grad	18	0	2	36	10.2	367
Build Const - PC & DC Struct	215	0	158	33,970	10.2	346,494
Build Const - AS/DS Struct	335	0	158	52,930	10.2	539,886
Build Const - Reno 2 story	245	0	158	38,710	10.2	394,842
Build Const - PC & DC Finish	120	0	158	18,960	10.2	193,392
Build Const - Parking Structure	200	0	158	31,600	10.2	322,320
Build Const - Site Fencing	29	0	2	58	10.2	592
Build Const - Well Drilling	65	0	2	130	10.2	1,326
Build Const - Well Building Const	65	0	2	130	10.2	1,326
Build Const - Water Tank	89	0	2	178	10.2	1,816
Build Const - Pump and Motor	10	0	2	20	10.2	204
Build Const - Hydropneumatic T	10	0	2	20	10.2	204
Build Const - Treatment	35	0	2	70	10.2	714
Build Const - Pipe + Apputenances	50	0	2	100	10.2	1,020
Build Const - Site Elect Equip	45	0	2	90	10.2	918
Total Miles						2,307,945
Average Distance per Trip (Miles)						11.82046
Average Distance per Trip (Feet)						62,412
Phase 2						
Construction Phase	Days	Haul Trips	Vendor	Total Trips	Mi/Trip	Miles
Demo	20	36	0	720	28	20,160
Grading	20	101	0	2,020	28	56,560
Building Const	230	0	64	14,720	10.2	150,144
Total Miles						226,864
Average Distance per Trip (Miles)						13.0
Average Distance per Trip (Feet)						68,604.9

Appendix H3.1: Emission Rates

Sheet 2: Phase 1 Unmitigated Construction Emissions for AERMOD Inputs

Year 1 Construction: January 1, 2024 to December 31, 2024

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Year 1 Off-Site Facility Construction Emissions
2024	Demo of Existing Buildings	0.05	22.9%	1.87E-03	7.2%
2024	Sitework (Grading and Utilities)	0.11	50.3%	1.41E-02	54.2%
2024	PC and DC Structure and Enclosure	0.03	12.0%	3.88E-03	14.9%
2024	AS/DS Structure and Enclosure	0.02	9.5%	3.09E-03	11.9%
2024	Reno of Ex 2-Story Building	0.01	5.3%	3.09E-03	11.9%
Year 1 Sum		0.23	100.0%	2.61E-02	100.0%

Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Year 1 Off-Site Facility Construction Emissions
2024	Demo	0.05	22.9%	1.87E-03	7.2%
2024	Main Site ^(A)	0.16	71.8%	2.11E-02	80.9%
2024	Reno 2 Story	0.01	5.3%	3.09E-03	11.9%
Year 1 sum		0.23	100.0%	2.61E-02	100.0%
(A) The Main Site construction includes Sitework (Grading and Utilities), PC and DC Structure and Enclosure, and AS/DS Structure and Enclosure					

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 1 On-Site Well Construction Emissions	Off-site Exhaust PM 10 (tons/yr)	Year 1 Off-Site Well Construction Emissions
2024	Well Site Preparation	4.93E-04	1.4%	4.67E-04	72.2%
2024	Rough Grading and Over Excavation	1.68E-03	4.7%	8.10E-06	1.3%
2024	Well Site Fencing	1.93E-04	0.5%	1.30E-05	2.0%
2024	Well Drilling	1.38E-02	38.3%	2.92E-05	4.5%
2024	Building Construction	4.71E-03	13.1%	2.92E-05	4.5%
2024	Water Tank	9.14E-03	25.4%	4.00E-05	6.2%
2024	Pump and Motor Installation	5.56E-04	1.5%	4.50E-06	0.7%
2024	Hydropneumatic Tank	2.95E-04	0.8%	4.50E-06	0.7%
2024	Treatment System	2.29E-03	6.4%	1.57E-05	2.4%
2024	Piping and Appurtenances	7.26E-04	2.0%	1.93E-05	3.0%
2024	Site Electrical Equipment	2.12E-03	5.9%	1.60E-05	2.5%
Year 1 Sum		0.04	100.0%	6.46E-04	100.0%

Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (lbs/yr)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (lbs/yr)	Percentage of Year 1 Off-Site Facility Construction Emissions
2024	Well Drilling	0.01	38.3%	0.00	4.5%
2024	Well Construction Excluding Drilling	0.02	61.7%	0.00	95.5%
Year 1 Sum		0.04	100.0%	0.00	100.0%

Year 2 Construction: January 1, 2025 to December 31, 2025

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 2 On-Site Facility Construction	Off-site Exhaust PM10 (tons/yr)	Percentage of Year 2 Off-Site Facility
2025	Landscaping	0.08	24.7%	9.89E-05	0.3%
2025	PC and DC Structure and Enclosure	0.02	7.5%	3.75E-03	12.7%

2025	AS/DS Structure and Enclosure	0.05	17.5%	8.77E-03	29.7%
2025	Reno of Ex 2-Story Building	0.02	6.4%	5.58E-03	18.9%
2025	PC and DC Finishes	0.02	5.7%	4.26E-03	14.4%
2025	Parking Structure	0.04	14.2%	7.10E-03	24.0%
2025	Paving - South and West	0.02	7.2%	0.00E+00	0.0%
2025	Paving - North and East	0.01	4.1%	0.00E+00	0.0%
2025	Haven Offsite Imp (Grading)	0.02	6.4%	0.00E+00	0.0%
2025	6th Street Offsite Imp (Grading)	0.02	6.4%	0.00E+00	0.0%
Year 2 Sum:		0.30	100.0%	2.96E-02	100.0%

Table 3B: Phase 1 Year 2 On-Site Facility Construction (Condensed)

Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Year 1 Off-Site Facility Construction Emissions
2025	Main Site	1.69E-01	55.4%	1.69E-02	57.1%
2025	Reno 2 Story	1.94E-02	6.4%	5.58E-03	18.9%
2025	Parking Structure	4.32E-02	14.2%	7.10E-03	24.0%
2025	Paving - S & W	2.18E-02	7.2%	0.00E+00	0.0%
2025	Paving - N & E	1.23E-02	4.1%	0.00E+00	0.0%
2025	Haven	1.96E-02	6.4%	0.00E+00	0.0%
2025	6th St	1.96E-02	6.4%	0.00E+00	0.0%
Year 2 Sum		3.04E-01	100.0%	2.96E-02	100.0%

Table 4A: Phase 1 Year 2 Off-Site Well Construction (Detailed)

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 2 On-Site Well Construction Emissions	Off-site Exhaust PM 10 (tons/yr)	Percentage of Year 2 Off-Site Well Construction Emissions
2025	Demolition of Sidewalk	3.07E-04	3.4%	0.00E+00	0.0%
2025	Finish Grading	1.14E-03	12.5%	0.00E+00	0.0%
2025	Piping and Appurtenances	1.10E-04	1.2%	3.21E-06	51.6%
2025	Site Electrical Equipment	3.20E-04	3.5%	3.01E-06	48.4%
2025	Paving and Sidewalk	9.92E-04	10.9%	0.00E+00	0.0%
2025	Paint and Coatings	7.53E-04	8.3%	0.00E+00	0.0%
2025	Underground Electrical	8.37E-04	9.2%	0.00E+00	0.0%
2025	Underground Pipeline	1.71E-03	18.9%	0.00E+00	0.0%
2025	Off-Site Water Transmission Line	2.90E-03	31.9%	0.00E+00	0.0%
Year 2 Sum:		9.07E-03	100.0%	6.22E-06	100.0%

Table 4B: Phase 1 Year 2 Off-Site Well Construction (Condensed)

Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (lbs/yr)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (lbs/yr)	Percentage of Year 1 Off-Site Facility Construction Emissions
2025	Well Construction	9.07E-03	100.0%	6.22E-06	100.0%

Conversions

lbs/ton	g/lb
2000	453.592

Construction Hours

	Daily Sun through Sat, 6 AM to 10 PM	Weekly	Annually
Total Daily Time (hours)	16	112	5824
Total Daily Time (seconds)	57600	403200	20966400

Year 1 and Year 2 Construction Emission Rates

Table 5: Year 1 Phase 1 Construction Emission Rates			
Year	Construction Phase	On-site Exh PM10 (g / s)	Off-site Exh PM10 (g / s)
Facility Construction			
Unadjusted Rates			
2024	Demo	2.25E-03	8.10E-05
2024	Main Site	7.07E-03	9.13E-04
2024	Reno 2 Story	5.23E-04	1.34E-04
On-site Exh PM10 (g / sec) + 2% Off			
2024	Demo	2.25E-03	--
2024	Main Site	7.09E-03	--
2024	Reno 2 Story	5.26E-04	--
Off-site Exh PM10 (g / sec) 98%			
2024	Demo	--	7.94E-05
2024	Main Site	--	8.94E-04
2024	Reno 2 Story	--	1.31E-04
Well Construction			
Unadjusted Rates			
2024	Well Drilling	8.95E-04	1.26E-06
2024	Well Construction Excluding Drilling	9.61E-04	2.67E-05
On-site Exh PM10 (g / sec) + 2% Off			
2024	Well Drilling	8.95E-04	--
2024	Well Construction Excluding Drilling	9.62E-04	--
Off-site Exh PM10 (g / sec) 98%			
2024	Well Drilling	--	1.24E-06
2024	Well Construction Excluding Drilling	--	2.62E-05
Total Well Construction		--	2.74E-05
Off-Site Total			1.13E-03

Table 6: Phase 1 Year 2 Construction Emission Rates			
Year	Construction Phase	On-site Exh PM10 (g / s)	Off-site Exh PM10 (g / s)
Facility Construction			
Unadjusted Rates			
2025	Main Site	7.29E-03	7.31E-04
2025	Reno 2 Story	8.40E-04	2.41E-04
2025	Parking Structure	1.87E-03	3.07E-04
2025	Paving - S & W	9.43E-04	0.00E+00
2025	Paving - N & E	5.34E-04	0.00E+00
2025	Haven	8.47E-04	0.00E+00
2025	6th St	8.47E-04	0.00E+00
On-site Exh PM10 (g / sec) + 2% Off			
2025	Main Site	7.31E-03	--
2025	Reno 2 Story	8.45E-04	--
2025	Parking Structure	1.87E-03	--
2025	Paving - S & W	9.43E-04	--
2025	Paving - N & E	5.34E-04	--
2025	Haven	8.47E-04	--
2025	6th St	8.47E-04	--
Off-site Exh PM10 (g / sec) 98%			
2025	Main Site	--	7.16E-04
2025	Reno 2 Story	--	2.37E-04
2025	Parking Structure	--	3.01E-04
2025	Paving - S & W	--	0.00E+00
2025	Paving - N & E	--	0.00E+00
2025	Haven	--	0.00E+00
2025	6th St	--	0.00E+00
Well Construction			
Unadjusted Rates			
2025	Well Construction	3.92E-04	2.69E-07
On-site Exh PM10 (g / sec) + 2% Off			
2025	Well Construction	3.92E-04	--
Off-site Exh PM10 (g / sec) 98%			
2025	Well Construction	--	2.64E-07
Off-Site Total			1.25E-03

Appendix H3.1: Emission Rates

Sheet 3: Phase 2 Unmitigated Construction Emissions for AERMOD Inputs

Year 3 Construction: January 1, 2026 to December 31, 2026

Table 1A: Phase 2 Year 1 On-Site Facility Construction (Detailed)

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 3 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Percentage of Year 3 Off-Site Facility Construction Emissions
2026	Building Construction	3.95E-02	37.9%	3.01E-03	37.5%
2026	Demolition	8.43E-03	8.1%	4.42E-04	5.5%
2026	Site Preparation	6.21E-03	6.0%	0.00E+00	0.0%
2026	Grading	6.46E-03	6.2%	1.25E-03	15.6%
2026	Cogen Facility Const	4.35E-02	41.8%	3.32E-03	41.4%
Year 3 Sum		1.04E-01	100.0%	8.02E-03	100.0%

Table 1B: Phase 2 Year 1 On-Site Facility Construction (Condensed)

Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 3 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Percentage of Year 3 Off-Site Facility Construction Emissions
2026	7th Street Warehouse ^(A)	6.06E-02	58.2%	4.70E-03	58.6%
2026	CoGen	4.35E-02	41.8%	3.32E-03	41.4%
Year 1 sum		1.04E-01	100.0%	8.02E-03	100.0%

(A) The 7th Street Warehouse construction includes the Building Construction, Demolition, Site Preparation, and Grading phases.

Phase 2 Year 2: January 1, 2027 to December 31, 2027

Table 2A: Phase 2 Year 2 On-Site Facility Construction (Detailed)

Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (tons/yr)	Percentage of Year 3 On-Site Facility Construction Emissions	Off-site Exhaust PM10 (tons/yr)	Percentage of Year 3 Off-Site Facility Construction Emissions
2027	Building Construction	3.73E-03	54.0%	3.20E-04	100.0%
2027	Paving	2.98E-03	43.2%	0.00E+00	0.0%
2027	Architectural Coating	1.90E-04	2.8%	0.00E+00	0.0%
Year 4 sum		0.01	100.0%	3.20E-04	100.0%

Conversions

lbs/ton	g/lb
2000	453.592

Construction Hours

	Daily	Weekly	Annually
	Sun through Sat, 6 AM to 10 PM		
Total Daily Time (hours)	16	112	5824
Total Daily Time (seconds)	57600	403200	20966400

Phase 2 Year 1 and Phase 2 Year 2 Construction Emission Rates

Table 3: Year 2 Phase 1 Construction Emission Rates

Year	Construction Phase	On-site Exh PM10 (g / sec)	Off-site Exh PM10 (g / sec)
Unadjusted Rates			
2026	7th Street Warehouse	2.62E-03	2.03E-04
2026	CoGen	1.88E-03	1.44E-04
On-site Exh PM10 (g / sec) + 2% Off			
2026	7th Street Warehouse	2.63E-03	--
2026	CoGen	1.89E-03	--
Off-site Exh PM10 (g / sec) 98%			
2026	7th Street Warehouse	--	1.99E-04
2026	CoGen	--	1.41E-04
Off-Site Total			3.40E-04

Table 4: Phase 2 Year 2 Construction Emission Rates

Year	Construction Phase	On-site Exh PM10 (g / sec)	Off-site Exh PM10 (g / sec)
Unadjusted Rates			
2027	7th Street Warehouse	2.98E-04	1.38E-05
On-site Exh PM10 (g / sec) + 2% Off			
2027	7th Street Warehouse	2.99E-04	--
Off-site Exh PM10 (g / sec) 98%			
2027	7th Street Warehouse	--	1.36E-05

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Construction Emissions for AERMOD Inputs

Sheet 4: Unmitigated Construction Emissions for LST Analysis AERMOD Inputs Summary

Source	Description	X	Y	Size (m ²)	Size (m)	% Size	Emissions Rate (g/s)	Emissions Rate (g/(s-m ²))
PAREA04	P1_Y1_On-Main-NW	446900.51	3772021.33	27,027.5	--	27%	1.40E-01	5.17E-06
PAREA05	P1_Y1_On-Main-NE	447072.25	3772019.16	23,471.3	--	23%	1.21E-01	5.17E-06
PAREA06	P1_Y1_On-Main-SW	446903.55	3771863.47	26,411.4	--	26%	1.36E-01	5.17E-06
PAREA07	P1_Y1_On-Main-SE	447096.1	3771860.87	24,943.6	--	24%	1.29E-01	5.17E-06
PAREA08	P1_Y1_On-Remod	446904.42	3771825.74	8,035.4	--	100%	4.72E-02	5.88E-06
PAREA19	P1_Y1_On-Well	447209.46	3771761.19	2,960.9	--	100%	7.92E-02	2.67E-05

Source	Description	X	Y	Size (m ²)	Size (m)	% Size	Emissions Rate (g/s)	Emissions Rate (g/(s-m ²))
PAREA09	P1_Y2_On-Main-NW	446900.51	3772021.33	27027.5	--	27%	1.09E-01	4.03E-06
PAREA10	P1_Y2_On-Main-NE	447072.25	3772019.16	23471.3	--	23%	9.46E-02	4.03E-06
PAREA11	P1_Y2_On-Main-SW	446903.55	3771863.47	26411.4	--	26%	1.06E-01	4.03E-06
PAREA12	P1_Y2_On-Main-SE	447096.1	3771860.87	24943.6	--	24%	1.01E-01	4.03E-06
PAREA13	P1_Y2_On-Remod	446904.42	3771825.74	8035.4	--	100%	5.15E-02	6.41E-06
PAREA14	P1_Y2_On-ParkingStruct	446932.61	3771817.93	9949.4	--	100%	3.41E-03	3.43E-07
PAREA15	P1_Y2_On-Paving_S+W	446903.98	3771836.15	28176.4	--	100%	7.88E-02	2.80E-06
PAREA17	P1_Y2_Off-Haven	446864.52	3772018.73	10394.5	--	100%	5.66E-02	5.44E-06
PAREA18	P1_Y2_Off-6th	446903.12	3771703.88	11051.9	--	100%	5.66E-02	5.12E-06
PAREA21	P1_Y2_On-Well	447209.46	3771761.19	2960.6	--	100%	3.28E-02	1.11E-05

Source	Description	X	Y	Size (m ²)	Size (m)	% Size	Emissions Rate (g/s)	Emissions Rate (g/(s-m ²))
PAREA09	P1_Y2_On-Main-NW	446900.51	3772021.33	27,027.5	--	27%	4.36E-03	1.61E-07
PAREA10	P1_Y2_On-Main-NE	447072.25	3772019.16	23,471.3	--	23%	3.79E-03	1.61E-07
PAREA11	P1_Y2_On-Main-SW	446903.55	3771863.47	26,411.4	--	26%	4.26E-03	1.61E-07
PAREA12	P1_Y2_On-Main-SE	447096.1	3771860.87	24,943.6	--	24%	4.03E-03	1.61E-07
PAREA13	P1_Y2_On-Remod	446904.42	3771825.74	8,035.4	--	100%	1.96E-03	2.43E-07
PAREA14	P1_Y2_On-ParkingStruct	446932.61	3771817.93	9,949.4	--	100%	3.41E-03	3.43E-07
PAREA15	P1_Y2_On-Paving_S+W	446903.98	3771836.15	28,176.4	--	100%	2.75E-03	9.74E-08
PAREA17	P1_Y2_Off-Haven	446864.52	3772018.73	10,394.5	--	100%	1.81E-03	1.75E-07
PAREA18	P1_Y2_Off-6th	446903.12	3771703.88	11,051.9	--	100%	1.81E-03	1.64E-07
PAREA21	P1_Y2_On-Well	447209.46	3771761.19	2,960.6	--	100%	1.04E-03	3.52E-07
Area01	P1Y2Con_FugitiveDustN	446897.73	3771856.04	53,405.5	--	50%	1.081E-07	2.02E-12
Area02	P1Y2Con_FugitiveDust2	446896.77	3771707.84	56,842.2	--	50%	#REF!	#REF!

Appendix H3.1: Emission Rates**Sheet 5: Unmitigated NOx Construction Emissions for LST Analysis AERMOD Inputs****Year 1 Construction: September 2024****Table 1A: Phase 1 Year 1 On-Site Facility Construction (Detailed)**

Year	Construction Phase (Detailed)	On-site NOx (lbs/day)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site NOx (lbs/day)	Percentage of Year 1 Off-Site Facility Construction Emissions
2024	Sitework (Grading and Utilities)	43.86	60.8%	1.41E+01	45.3%
2024	PC and DC Structure and Enclosure	11.22	15.5%	5.68E+00	18.2%
2024	AS/DS Structure and Enclosure	11.22	15.5%	5.68E+00	18.2%
2024	Reno of Ex 2-Story Building	5.89	8.2%	5.68E+00	18.2%
Year 1 Sum		72.18	100.0%	3.11E+01	100.0%

Table 1B: Phase 1 Year 1 On-Site Facility Construction (Condensed)

Year	Construction Phase (Condensed)	On-site NOx (lbs/day)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site NOx (lbs/day)	Percentage of Year 1 Off-Site Facility Construction Emissions
2024	Main Site ^(A)	66.30	91.8%	2.55E+01	81.8%
2024	Reno 2 Story	5.89	8.2%	5.68E+00	18.2%
Year 1 sum		72.18	100.0%	3.11E+01	100.0%

(A) The Main Site construction includes Sitework (Grading and Utilities), PC and DC Structure and Enclosure, and AS/DS Structure and Enclosure

Table 2A: Phase 1 Year 1 Off-Site Well Construction (Detailed)

Year	Construction Phase (Detailed)	On-site NOx (lbs/day)	Percentage of Year 1 On-Site Well Construction Emissions	Off-site NOx (lbs/day)	Percentage of Year 1 Off-Site Well Construction Emissions
2024	Building Construction	3.50	34.8%	7.19E-02	33.3%
2024	Water Tank	5.15	51.2%	7.19E-02	33.3%
2024	Hydropneumatic Tank	1.40	13.9%	7.19E-02	33.3%
Year 1 Sum		10.05	100.0%	2.16E-01	100.0%

Table 2B: Phase 1 Year 1 Off-Site Well Construction (Condensed)

Year	Construction Phase (Condensed)	On-site NOx (lbs/day)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site NOx (lbs/day)	Percentage of Year 1 Off-Site Facility Construction Emissions
2024	Well Construction	10.05	100.0%	0.22	100.0%
Year 1 Sum		10.05	100.0%	0.22	100.0%

Conversions

lbs/ton	g/lb
2000	453.592

Construction Hours

Total Daily Time (hours)	16
Total Daily Time (seconds)	57600

Table 3: Year 1 Phase 1 Construction Emission Rates

Year	Construction Phase	On-site Exh PM10 (g / sec)	Off-site Exh PM10 (g / sec)
Facility Construction			
Unadjusted Rates			
2024	Main Site	5.22E-01	2.01E-01
2024	Reno 2 Story	4.64E-02	4.47E-02
On-site Exh PM10 (g / sec) + 2% Off			
2024	Main Site	5.26E-01	--
2024	Reno 2 Story	4.72E-02	--
Off-site Exh PM10 (g / sec) 98%			
2024	Main Site	--	1.96E-01
2024	Reno 2 Story	--	4.38E-02
Well Construction			
Unadjusted Rates			
2024	Well Construction	7.91E-02	1.70E-03
On-site Exh PM10 (g / sec) + 2% Off			
2024	Well Construction	7.92E-02	--

Appendix H3.1: Emission Rates**Sheet 6: Unmitigated CO Construction Emissions for LST Analysis AERMOD Inputs****Year 2 Construction: August 2025****Table 1A: Phase 1 Year 2 On-Site Facility Construction (Detailed)**

Year	Construction Phase (Detailed)	On-site CO (lbs/day)	Percentage of Year 2 On-Site Facility Construction Emissions	Off-site CO (lbs/day)
2025	Landscaping	30.18	37.1%	1.44E+00
2025	AS/DS Structure and Enclosure	13.04	16.0%	3.42E+01
2025	Reno of Ex 2-Story Building	5.85	7.2%	3.42E+01
2025	PC and DC Finishes	7.51	9.2%	3.42E+01
2025	Parking Structure	0.43	0.5%	7.10E-02
2025	Paving - South and West	9.98	12.3%	1.17E+00
2025	Haven Offsite Imp (Grading)	7.16	8.8%	9.73E-01
2025	6th Street Offsite Imp (Grading)	7.16	8.8%	9.73E-01
Year 2 Sum:		81.31	100.0%	1.07E+02

Table 1B: Phase 1 Year 2 On-Site Facility Construction (Condensed)

Year	Construction Phase (Condensed)	On-site Exhaust CO (lbs/day)	Percentage of Year 2 On-Site Facility Construction Emissions	Off-site Exhaust CO (lbs/day)
2025	Main Site	5.07E+01	62.4%	6.98E+01
2025	Reno 2 Story	5.85E+00	7.2%	3.42E+01
2025	Parking Structure	4.32E-01	0.5%	7.10E-02
2025	Paving - S & W	9.98E+00	12.3%	1.17E+00
2025	Haven	7.16E+00	8.8%	9.73E-01
2025	6th St	7.16E+00	8.8%	9.73E-01
Year 2 Sum		8.13E+01	100.0%	1.07E+02

Table 2A: Phase 1 Year 2 Off-Site Well Construction (Detailed)

Year	Construction Phase (Detailed)	On-site CO (lbs/day)	Percentage of Year 2 On-Site Well Construction Emissions	Off-Site Exhaust CO (lbs/day)
2025	Paint and Coatings	1.28E+00	30.7%	7.79E-02
2025	Off-Site Water Transmission Line	2.88E+00	69.3%	0.00E+00
Year 2 Sum:		4.16E+00	100.0%	0.00E+00

Table 2B: Phase 1 Year 2 Off-Site Well Construction (Condensed)

Year	Construction Phase (Condensed)	On-site Exhaust CO (lbs/day)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-Site Exhaust CO (lbs/day)
2025	Well Construction	4.16E+00	100.0%	7.79E-02

Conversions

lbs/ton	g/lb
2000	453.592

Construction Hours

Total Daily Time (hours)	16
Total Daily Time (seconds)	57600

Table 3: Phase 1 Year 2 CO Construction Emission Rates			
Year	Construction Phase	On-site CO (g/sec)	Off-site CO (g/sec)
Facility Construction			
Unadjusted Rates			
2025	Main Site	3.99E-01	5.50E-01
2025	Reno 2 Story	4.61E-02	2.69E-01
2025	Parking Structure	3.40E-03	5.59E-04
2025	Paving - S & W	7.86E-02	9.20E-03
2025	Haven	5.64E-02	7.67E-03
2025	6th St	5.64E-02	7.67E-03
On-site Exh PM10 (g / sec) + 2% Off			
2025	Main Site	4.10E-01	--
2025	Reno 2 Story	5.15E-02	--
2025	Parking Structure	3.41E-03	--
2025	Paving - S & W	7.88E-02	--
2025	Haven	5.66E-02	--
2025	6th St	5.66E-02	--
Well Construction			
Unadjusted Rates			
2025	Well Construction	3.27E-02	6.13E-04
On-site Exh PM10 (g / sec) + 2% Off			
2025	Well Construction	3.28E-02	--

Appendix H3.1: Emission Rates**Sheet 7: Unmitigated PM10 Construction Emissions for LST Analysis AERMOD Inputs****Year 2 Construction: August 2025**

Table 1A: Phase 1 Year 2 On-Site Facility Construction (Detailed)				
Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (lbs/day)	Percentage of Year 2 On-Site Facility Construction Emissions	Off-site Exhaust PM (lbs/day)
2025	Landscaping	1.37	38.2%	1.80E-03
2025	AS/DS Structure and Enclosure	0.43	12.1%	7.10E-02
2025	Reno of Ex 2-Story Building	0.25	6.9%	7.10E-02
2025	PC and DC Finishes	0.29	8.1%	7.10E-02
2025	Parking Structure	0.43	12.1%	7.10E-02
2025	Paving - South and West	0.35	9.8%	0.00E+00
2025	Haven Offsite Imp (Grading)	0.23	6.4%	0.00E+00
2025	6th Street Offsite Imp (Grading)	0.23	6.4%	0.00E+00
Year 2 Sum:		3.57	100.0%	2.86E-01

Table 1B: Phase 1 Year 2 On-Site Facility Construction (Condensed)				
Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (lbs/day)	Percentage of Year 2 On-Site Facility Construction Emissions	Off-site Exhaust PM (lbs/day)
2025	Main Site	2.09E+00	58.4%	1.44E-01
2025	Reno 2 Story	2.47E-01	6.9%	7.10E-02
2025	Parking Structure	4.32E-01	12.1%	7.10E-02
2025	Paving - S & W	3.49E-01	9.8%	0.00E+00
2025	Haven	2.30E-01	6.4%	0.00E+00
2025	6th St	2.30E-01	6.4%	0.00E+00
Year 2 Sum		3.57E+00	100.0%	2.86E-01

Table 2A: Phase 1 Year 2 Off-Site Well Construction (Detailed)				
Year	Construction Phase (Detailed)	On-site Exhaust PM 10 (lbs/day)	Percentage of Year 2 On-Site Well Construction Emissions	Off-site Exhaust PM (lbs/day)
2025	Paint and Coatings	4.30E-02	32.6%	0.00E+00
2025	Off-Site Water Transmission Line	8.91E-02	67.4%	0.00E+00
Year 2 Sum:		1.32E-01	100.0%	0.00E+00

Table 2B: Phase 1 Year 2 Off-Site Well Construction (Condensed)				
Year	Construction Phase (Condensed)	On-site Exhaust PM 10 (lbs/day)	Percentage of Year 1 On-Site Facility Construction Emissions	Off-site Exhaust PM (lbs/day)
2025	Well Construction	1.32E-01	100.0%	0.00E+00

Fugitive Dust

Year	Construction Phase	On-site Exhaust PM 10 (lbs/day)	2% of Offsite PM 10 (lbs/day)
2025	Landscaping	5.11E+00	5.40E-01

Conversions

lbs/ton	g/lb
2000	453.592

Construction Hours

Total Daily Time (hours)	16
Total Daily Time (seconds)	57600

Table 6:Phase 1 Year 2 PM10 Construction Emission Rates			
Year	Construction Phase	On-site Exh PM10 (g / sec)	Off-site Exh PM10 (g / sec)
Facility Construction			
Unadjusted Rates			
2025	Main Site	1.64E-02	1.13E-03
2025	Reno 2 Story	1.95E-03	5.59E-04
2025	Parking Structure	3.40E-03	5.59E-04
2025	Paving - S & W	2.75E-03	0.00E+00
2025	Haven	1.81E-03	0.00E+00
2025	6th St	1.81E-03	0.00E+00
On-site Exh PM10 (g / sec) + 2% Off			
2025	Main Site	1.64E-02	--
2025	Reno 2 Story	1.96E-03	--
2025	Parking Structure	3.41E-03	--
2025	Paving - S & W	2.75E-03	--
2025	Haven	1.81E-03	--
2025	6th St	1.81E-03	--
Well Construction			
Unadjusted Rates			
2025	Well Construction	1.04E-03	0.00E+00
On-site Exh PM10 (g / sec) + 2% Off			
2025	Well Construction	1.04E-03	--

El Camino Project

Appendix H3.1: Emission Rates

Operational Emissions for AERMOD Inputs

This file contains the following sheets:

<u>Sheet</u>	<u>Description of Information</u>
Sheet 1	AERMOD Source Input Summary for NOx
Sheet 2	AERMOD Source Input Summary for PM10
Sheet 3	AERMOD Source Input Summary for CO
Sheet 4	AERMOD Source Annual NOx Emissions Estimates
Sheet 5	AERMOD Source Annual PM10 Emissions Estimates
Sheet 6	AERMOD Source Annual CO Emissions Estimates
Sheet 7	Truck Trip / Idle Distribution for AERMOD Source Input Data
Sheet 8	EMFAC-Derived Composite Truck Trip / Idle Emission Factors
Sheet 9	AERMOD Generator and TRU Source Information
Sheet 10	EMFAC2021 (v1.0.2) Emission Rates Truck Idling
Sheet 11	EMFAC2021 (v1.0.2) Emission Rates 10, 25, 45, and 50 mph

El Camino Project
AERMOD Source Input Summary for NOx
August 2025

Volume Source - Idling Location	Volume Source #	Release Height (m)	Emission Rate (g/s)	Length of Side (m)	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
N_Bay1-1_3	VOL01	4.12	3.843E-03	12.00	2.79	6.59	9.00	1,085.07	1,094.07
N_Bay1-2_3	VOL02	4.12	3.843E-03	12.00	2.79	6.59	9.00	1,084.94	1,093.94
N_Bay2-1_4	VOL03	4.12	5.123E-03	16.00	3.72	6.59	9.00	1,084.45	1,093.45
N_Bay2-2_3	VOL04	4.12	3.843E-03	12.00	2.79	6.59	9.00	1,083.56	1,092.56
N_Bay3-1_4	VOL05	4.12	5.123E-03	16.00	3.72	6.59	9.00	1,083.20	1,092.20
N_Bay4-1_4	VOL06	4.12	5.123E-03	16.00	3.72	6.59	9.00	1,083.37	1,092.37
N_Bay4-2_4	VOL07	4.12	5.123E-03	16.00	3.72	6.59	9.00	1,083.76	1,092.76
N_Bay5-1_2	VOL08	4.12	2.562E-03	8.00	1.86	6.59	9.00	1,083.17	1,092.17
N_Bay6-1_3	VOL09	4.12	3.843E-03	12.00	2.79	17.01	9.00	1,083.37	1,092.37
N_Bay6-2_2	VOL10	4.12	2.562E-03	8.00	1.86	17.01	9.00	1,083.46	1,092.46
N_Bay7-1_3	VOL11	4.12	3.843E-03	12.00	2.79	17.01	9.00	1,083.66	1,092.66
N_Bay7-2_4	VOL12	4.12	5.123E-03	16.00	3.72	17.01	9.00	1,083.43	1,092.43
N_Bay8-1_4	VOL13	4.12	5.123E-03	16.00	3.72	17.01	9.00	1,083.50	1,092.50
E-Lower_Bay9-1_1	VOL14	4.12	1.281E-03	8.00	1.86	11.48	0.00	1,073.92	1,073.92
E-Lower_Bay10-1_3	VOL15	4.12	3.843E-03	25.00	5.81	11.48	0.00	1,073.26	1,073.26
E-Lower_Bay10-2_2	VOL16	4.12	2.562E-03	12.00	2.79	11.48	0.00	1,072.93	1,072.93
E-Lower_Bay11-1_1	VOL17	4.12	1.281E-03	8.00	1.86	11.48	0.00	1,072.24	1,072.24
E-Elevated_Bay12-1_4	VOL18	4.12	5.123E-03	20.00	4.65	6.95	32.00	1,074.25	1,106.25
E-Elevated_Bay12-2_4	VOL19	4.12	5.123E-03	20.00	4.65	6.95	32.00	1,073.75	1,105.75

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Release Height	Emission Rate	Length of Side	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
Road Segment	Volume #	meters	g/s	meters					
Isle_N-1_To-Docks	VOL20	4.12	8.016E-04	18.00	4.19	0.96	1.29	1092.027594	1,093.31
Isle_N-2_To-Docks	VOL21	4.12	8.016E-04	18.00	4.19	0.96	2.57	1091.141767	1,093.71
Isle_N-3_To-Docks	VOL22	4.12	8.016E-04	18.00	4.19	0.96	3.86	1090.321557	1,094.18
Isle_N-4_To-Docks	VOL23	4.12	8.016E-04	18.00	4.19	0.96	5.14	1089.534156	1,094.68
Isle_N-5_To-Docks	VOL24	4.12	8.016E-04	18.00	4.19	0.96	6.43	1088.681137	1,095.11
Isle_N-6_To-Docks	VOL25	4.12	8.016E-04	18.00	4.19	0.96	7.71	1086.9751	1,094.69
Isle_N-7_To-Docks	VOL26	4.12	8.016E-04	18.00	4.19	0.96	9.00	1085.33468	1,094.33
Isle_W-E_1 Interior (Bay 1)	VOL27	4.12	9.431E-05	18.00	4.19	0.96	9.00	1086.286124	1,095.29
Isle_W-E_2 Interior (Remove Bay 1+2)	VOL28	4.12	2.043E-04	18.00	4.19	0.96	9.00	1085.662764	1,094.66
Isle_W-E_3 Interior (Remove Bay 1+2)	VOL29	4.12	2.043E-04	18.00	4.19	0.96	9.00	1084.645704	1,093.65
Isle_W-E_4 Interior (Remove Bay 1+8+12)	VOL30	4.12	8.016E-04	18.00	4.19	0.96	9.00	1084.186386	1,093.19
Isle_W-E_5 Interior (Remove Bay 1-3)	VOL31	4.12	5.344E-04	18.00	4.19	0.96	9.00	1084.284812	1,093.28
Isle_W-E_6 Interior (Remove Bay 1-3)	VOL32	4.12	5.344E-04	18.00	4.19	0.96	9.00	1084.612896	1,093.61
Isle_W-E_7 Interior (Remove Bay 1-3)	VOL33	4.12	5.344E-04	18.00	4.19	0.96	9.00	1085.039405	1,094.04
Isle_W-E_8 Interior (Remove Bay 1-4)	VOL34	4.12	3.772E-04	18.00	4.19	0.96	9.00	1085.203447	1,094.20
Isle_W-E_9 Interior (Remove Bay 1-5)	VOL35	4.12	2.986E-04	18.00	4.19	0.96	9.00	1085.236255	1,094.24
Isle_W-E_10 Interior (Remove Bay 1-6)	VOL36	4.12	1.886E-04	18.00	4.19	0.96	9.00	1084.744129	1,093.74
Isle_W-E_11 Interior (Remove Bay 1-6)	VOL37	4.12	1.886E-04	18.00	4.19	0.96	9.00	1084.219195	1,093.22
Isle_W-E_12 Interior (Remove Bay 1-7)	VOL38	4.12	1.257E-04	18.00	4.19	0.96	9.00	1084.94098	1,093.94
Isle_W-E_13 Interior (Remove Bay 1-8)	VOL39	4.12	1.257E-04	18.00	4.19	0.96	9.00	1084.908171	1,093.91
Isle_W-E_14 Interior (Remove Bay 1-8)	VOL40	4.12	1.257E-04	18.00	4.19	0.96	9.00	1084.350428	1,093.35
Isle_W-E_15 Interior (Remove Bay 1-8)	VOL41	4.12	8.383E-05	12.00	2.79	0.96	11.30	1083.989536	1,095.29
Isle_W-E_16 Interior (Remove Bay 1-8)	VOL42	4.12	8.383E-05	12.00	2.79	0.96	13.60	1083.005284	1,096.61
Isle_W-E_17 Interior (Remove Bay 1-8)	VOL43	4.12	8.383E-05	12.00	2.79	0.96	15.90	1081.791373	1,097.69
Isle_W-E_18 Interior (Remove Bay 1-8)	VOL44	4.12	8.383E-05	12.00	2.79	0.96	18.20	1080.479037	1,098.68
Isle_W-E_19 Interior (Remove Bay 1-8)	VOL45	4.12	8.383E-05	12.00	2.79	0.96	20.50	1079.461977	1,099.96
Isle_W-E_20 Interior (Remove Bay 1-8)	VOL46	4.12	8.383E-05	12.00	2.79	0.96	22.80	1078.740192	1,101.54
Isle_W-E_21 Interior (Remove Bay 1-8)	VOL47	4.12	8.383E-05	12.00	2.79	0.96	25.10	1078.215258	1,103.32
Isle_W-E_22 Interior (Remove Bay 1-8)	VOL48	4.12	8.383E-05	12.00	2.79	0.96	27.40	1077.75594	1,105.16
Isle_W-E_23 Interior (Remove Bay 1-8)	VOL49	4.12	8.383E-05	12.00	2.79	0.96	29.70	1076.640454	1,106.34
Isle_W-E_24 Interior (Remove Bay 1-8)	VOL50	4.12	8.383E-05	12.00	2.79	0.96	32.00	1074.67195	1,106.67
Isle_W-E_25 Interior (Remove Bay 1-8)	VOL51	4.12	8.383E-05	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_26 Interior (Remove Bay 1-8)	VOL52	4.12	8.383E-05	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_27 Interior (Remove Bay 1-8)	VOL53	4.12	8.383E-05	12.00	2.79	0.96	32.00	1074.212633	1,106.21
Isle_W-E_28 Interior (Remove Bay 1-8)	VOL54	4.12	8.383E-05	12.00	2.79	0.96	32.00	1073.884549	1,105.88
Isle_E-1_To-Docks	VOL55	4.12	1.100E-04	18.00	4.19	0.96	0	1078.182449	1,078.18
Isle_E-2_To-Docks	VOL56	4.12	1.100E-04	18.00	4.19	0.96	0	1076.476412	1,076.48
Isle_E-3_To-Docks	VOL57	4.12	1.100E-04	18.00	4.19	0.96	0	1074.442292	1,074.44
Isle_E-4_To-Docks	VOL58	4.12	1.100E-04	18.00	4.19	0.96	0	1074.245441	1,074.25
Isle_N-S_1 Interior (Bay 9-11)	VOL59	4.12	1.100E-04	18.00	4.19	0.96	0	1074.048591	1,074.05
Isle_N-S_2 Interior (Bay 10-11)	VOL60	4.12	9.431E-05	18.00	4.19	0.96	0	1073.753315	1,073.75
Isle_N-S_3 Interior (Bay 10-11)	VOL61	4.12	9.431E-05	18.00	4.19	0.96	0	1073.392423	1,073.39
Isle_N-S_4 Interior (Bay 10-11)	VOL62	4.12	9.431E-05	18.00	4.19	0.96	0	1073.03153	1,073.03
Isle_N-S_5 Interior (Bay 11)	VOL63	4.12	1.572E-05	18.00	4.19	0.96	0	1072.63783	1,072.64

Offsite Travel - Area Sources	Area #	Release Height	Grams / Sec	Emission Rate
Road Segment		meters		g/s-m ²
Ops_Haven_n/o_Haven&7th	ARLN07	4.12	2.810E-04	2.519E-08
Ops_Haven_s/o_Haven&7th	ARLN08	4.12	4.168E-03	1.386E-07
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	4.12	1.521E-03	9.254E-07
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	4.12	2.066E-03	3.264E-07
Ops_Utica_E-Driveway-to-6th	ARLN11	4.12	1.309E-03	4.981E-07
Ops_6th_e/o-Utica&6th	ARLN12	4.12	2.218E-03	9.387E-08

Generators - Point Sources	STCK #	Grams / Sec
Description		
Generator 1 - Stack 1	STCK01	2.638E-02
Generator 1 - Stack 2	STCK02	2.638E-02
Generator 2 - Stack 1	STCK03	2.638E-02
Generator 2 - Stack 2	STCK04	2.638E-02

Note: For input information, see Generator tab in spreadsheet.

Dock	Adjacent Building Height (meters)	Adjacent Building Height (feet)
Docks 1-5	14.2	46.5
Docks 6-8	36.6	120
Docks 9-11	24.7	81
Dock 12	14.9	49

El Camino Project
AERMOD Source Input Summary for PM10
August 2025

Volume Source - Idling Location	Volume Source #	Release Height (m)	Emission Rate (g/s)	Length of Side (m)	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
N_Bay1-1_3	VOL01	4.12	2.052E-06	12.00	2.79	6.59	9.00	1,085.07	1,094.07
N_Bay1-2_3	VOL02	4.12	2.052E-06	12.00	2.79	6.59	9.00	1,084.94	1,093.94
N_Bay2-1_4	VOL03	4.12	2.736E-06	16.00	3.72	6.59	9.00	1,084.45	1,093.45
N_Bay2-2_3	VOL04	4.12	2.052E-06	12.00	2.79	6.59	9.00	1,083.56	1,092.56
N_Bay3-1_4	VOL05	4.12	2.736E-06	16.00	3.72	6.59	9.00	1,083.20	1,092.20
N_Bay4-1_4	VOL06	4.12	2.736E-06	16.00	3.72	6.59	9.00	1,083.37	1,092.37
N_Bay4-2_4	VOL07	4.12	2.736E-06	16.00	3.72	6.59	9.00	1,083.76	1,092.76
N_Bay5-1_2	VOL08	4.12	1.368E-06	8.00	1.86	6.59	9.00	1,083.17	1,092.17
N_Bay6-1_3	VOL09	4.12	2.052E-06	12.00	2.79	17.01	9.00	1,083.37	1,092.37
N_Bay6-2_2	VOL10	4.12	1.368E-06	8.00	1.86	17.01	9.00	1,083.46	1,092.46
N_Bay7-1_3	VOL11	4.12	2.052E-06	12.00	2.79	17.01	9.00	1,083.66	1,092.66
N_Bay7-2_4	VOL12	4.12	2.736E-06	16.00	3.72	17.01	9.00	1,083.43	1,092.43
N_Bay8-1_4	VOL13	4.12	2.736E-06	16.00	3.72	17.01	9.00	1,083.50	1,092.50
E-Lower_Bay9-1_1	VOL14	4.12	6.839E-07	8.00	1.86	11.48	0.00	1,073.92	1,073.92
E-Lower_Bay10-1_3	VOL15	4.12	2.052E-06	25.00	5.81	11.48	0.00	1,073.26	1,073.26
E-Lower_Bay10-2_2	VOL16	4.12	1.368E-06	12.00	2.79	11.48	0.00	1,072.93	1,072.93
E-Lower_Bay11-1_1	VOL17	4.12	6.839E-07	8.00	1.86	11.48	0.00	1,072.24	1,072.24
E-Elevated_Bay12-1_4	VOL18	4.12	2.736E-06	20.00	4.65	6.95	32.00	1,074.25	1,106.25
E-Elevated_Bay12-2_4	VOL19	4.12	2.736E-06	20.00	4.65	6.95	32.00	1,073.75	1,105.75

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Release Height	Emission Rate	Length of Side	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
Road Segment	Volume #	meters	g/s	meters					
Isle_N-1_To-Docks	VOL20	4.12	1.579E-06	18.00	4.19	0.96	1.29	1092.027594	1,093.31
Isle_N-2_To-Docks	VOL21	4.12	1.579E-06	18.00	4.19	0.96	2.57	1091.141767	1,093.71
Isle_N-3_To-Docks	VOL22	4.12	1.579E-06	18.00	4.19	0.96	3.86	1090.321557	1,094.18
Isle_N-4_To-Docks	VOL23	4.12	1.579E-06	18.00	4.19	0.96	5.14	1089.534156	1,094.68
Isle_N-5_To-Docks	VOL24	4.12	1.579E-06	18.00	4.19	0.96	6.43	1088.681137	1,095.11
Isle_N-6_To-Docks	VOL25	4.12	1.579E-06	18.00	4.19	0.96	7.71	1086.9751	1,094.69
Isle_N-7_To-Docks	VOL26	4.12	1.579E-06	18.00	4.19	0.96	9.00	1085.33468	1,094.33
Isle_W-E_1_Interior (Bay 1)	VOL27	4.12	1.858E-07	18.00	4.19	0.96	9.00	1086.286124	1,095.29
Isle_W-E_2_Interior (Bay 1+2)	VOL28	4.12	4.025E-07	18.00	4.19	0.96	9.00	1085.662764	1,094.66
Isle_W-E_3_Interior (Bay 1+2)	VOL29	4.12	4.025E-07	18.00	4.19	0.96	9.00	1084.645704	1,093.65
Isle_W-E_4_Interior (Bay 1-8+12)	VOL30	4.12	1.579E-06	18.00	4.19	0.96	9.00	1084.186386	1,093.19
Isle_W-E_5_Interior (Remove Bay 1-3)	VOL31	4.12	1.053E-06	18.00	4.19	0.96	9.00	1084.284812	1,093.28
Isle_W-E_6_Interior (Remove Bay 1-3)	VOL32	4.12	1.053E-06	18.00	4.19	0.96	9.00	1084.612896	1,093.61
Isle_W-E_7_Interior (Remove Bay 1-3)	VOL33	4.12	1.053E-06	18.00	4.19	0.96	9.00	1085.039405	1,094.04
Isle_W-E_8_Interior (Remove Bay 1-4)	VOL34	4.12	7.431E-07	18.00	4.19	0.96	9.00	1085.203447	1,094.20
Isle_W-E_9_Interior (Remove Bay 1-5)	VOL35	4.12	5.883E-07	18.00	4.19	0.96	9.00	1085.236255	1,094.24
Isle_W-E_10_Interior (Remove Bay 1-6)	VOL36	4.12	3.716E-07	18.00	4.19	0.96	9.00	1084.744129	1,093.74
Isle_W-E_11_Interior (Remove Bay 1-6)	VOL37	4.12	3.716E-07	18.00	4.19	0.96	9.00	1084.219195	1,093.22
Isle_W-E_12_Interior (Remove Bay 1-7)	VOL38	4.12	2.477E-07	18.00	4.19	0.96	9.00	1084.94098	1,093.94
Isle_W-E_13_Interior (Remove Bay 1-8)	VOL39	4.12	2.477E-07	18.00	4.19	0.96	9.00	1084.908171	1,093.91
Isle_W-E_14_Interior (Remove Bay 1-8)	VOL40	4.12	2.477E-07	18.00	4.19	0.96	9.00	1084.350428	1,093.35
Isle_W-E_15_Interior (Remove Bay 1-8)	VOL41	4.12	1.651E-07	12.00	2.79	0.96	11.30	1083.989536	1,095.29
Isle_W-E_16_Interior (Remove Bay 1-8)	VOL42	4.12	1.651E-07	12.00	2.79	0.96	13.60	1083.005284	1,096.61
Isle_W-E_17_Interior (Remove Bay 1-8)	VOL43	4.12	1.651E-07	12.00	2.79	0.96	15.90	1081.791373	1,097.69
Isle_W-E_18_Interior (Remove Bay 1-8)	VOL44	4.12	1.651E-07	12.00	2.79	0.96	18.20	1080.479037	1,098.68
Isle_W-E_19_Interior (Remove Bay 1-8)	VOL45	4.12	1.651E-07	12.00	2.79	0.96	20.50	1079.461977	1,099.96
Isle_W-E_20_Interior (Remove Bay 1-8)	VOL46	4.12	1.651E-07	12.00	2.79	0.96	22.80	1078.740192	1,101.54
Isle_W-E_21_Interior (Remove Bay 1-8)	VOL47	4.12	1.651E-07	12.00	2.79	0.96	25.10	1078.215258	1,103.32
Isle_W-E_22_Interior (Remove Bay 1-8)	VOL48	4.12	1.651E-07	12.00	2.79	0.96	27.40	1077.75594	1,105.16
Isle_W-E_23_Interior (Remove Bay 1-8)	VOL49	4.12	1.651E-07	12.00	2.79	0.96	29.70	1076.640454	1,106.34
Isle_W-E_24_Interior (Remove Bay 1-8)	VOL50	4.12	1.651E-07	12.00	2.79	0.96	32.00	1074.67195	1,106.67
Isle_W-E_25_Interior (Remove Bay 1-8)	VOL51	4.12	1.651E-07	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_26_Interior (Remove Bay 1-8)	VOL52	4.12	1.651E-07	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_27_Interior (Remove Bay 1-8)	VOL53	4.12	1.651E-07	12.00	2.79	0.96	32.00	1074.212633	1,106.21
Isle_W-E_28_Interior (Remove Bay 1-8)	VOL54	4.12	1.651E-07	12.00	2.79	0.96	32.00	1073.884549	1,105.88
Isle_E-1_To-Docks	VOL55	4.12	2.167E-07	18.00	4.19	0.96	0	1078.182449	1,078.18
Isle_E-2_To-Docks	VOL56	4.12	2.167E-07	18.00	4.19	0.96	0	1076.476412	1,076.48
Isle_E-3_To-Docks	VOL57	4.12	2.167E-07	18.00	4.19	0.96	0	1074.442292	1,074.44
Isle_E-4_To-Docks	VOL58	4.12	2.167E-07	18.00	4.19	0.96	0	1074.245441	1,074.25
Isle_N-S_1_Interior (Bay 9-11)	VOL59	4.12	2.167E-07	18.00	4.19	0.96	0	1074.048591	1,074.05
Isle_N-S_2_Interior (Bay 10-11)	VOL60	4.12	1.858E-07	18.00	4.19	0.96	0	1073.753315	1,073.75
Isle_N-S_3_Interior (Bay 10-11)	VOL61	4.12	1.858E-07	18.00	4.19	0.96	0	1073.392423	1,073.39
Isle_N-S_4_Interior (Bay 10-11)	VOL62	4.12	1.858E-07	18.00	4.19	0.96	0	1073.03153	1,073.03
Isle_N-S_5_Interior (Bay 11)	VOL63	4.12	3.096E-08	18.00	4.19	0.96	0	1072.63783	1,072.64

Offsite Travel - Area Sources	Area #	Release Height	Grams / Sec	Emission Rate
Road Segment		meters		g/s-m ²
Ops_Haven_n/o_Haven&7th	ARLN07	4.12	4.058E-06	3.881E-10
Ops_Haven_s/o_Haven&7th	ARLN08	4.12	6.019E-05	2.135E-09
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	4.12	4.203E-06	2.731E-09
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	4.12	5.710E-06	9.637E-10
Ops_Utica_E-Driveway-to-6th	ARLN11	4.12	3.618E-06	1.471E-09
Ops_6th_e/o-Utica&6th	ARLN12	4.12	2.376E-05	1.073E-09

Generators - Point Sources	STCK #	Grams / Sec
Description		
Generator 1 - Stack 1	STCK01	4.889E-04
Generator 1 - Stack 2	STCK02	4.889E-04
Generator 2 - Stack 1	STCK03	4.889E-04
Generator 2 - Stack 2	STCK04	4.889E-04

Note: For input information, see Generator tab in spreadsheet.

Dock	Adjacent Building Height (meters)	Adjacent Building Height (feet)
Docks 1-5	14.2	46.5
Docks 6-8	36.6	120
Docks 9-11	24.7	81
Dock 12	14.9	49

El Camino Project
AERMOD Source Input Summary for CO
August 2025

Volume Source - Idling Location	Volume Source #	Release Height (m)	Emission Rate (g/s)	Length of Side (m)	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
N_Bay1-1_3	VOL01	4.12	4.738E-03	12.00	2.79	6.59	9.00	1,085.07	1,094.07
N_Bay1-2_3	VOL02	4.12	4.738E-03	12.00	2.79	6.59	9.00	1,084.94	1,093.94
N_Bay2-1_4	VOL03	4.12	6.317E-03	16.00	3.72	6.59	9.00	1,084.45	1,093.45
N_Bay2-2_3	VOL04	4.12	4.738E-03	12.00	2.79	6.59	9.00	1,083.56	1,092.56
N_Bay3-1_4	VOL05	4.12	6.317E-03	16.00	3.72	6.59	9.00	1,083.20	1,092.20
N_Bay4-1_4	VOL06	4.12	6.317E-03	16.00	3.72	6.59	9.00	1,083.37	1,092.37
N_Bay4-2_4	VOL07	4.12	6.317E-03	16.00	3.72	6.59	9.00	1,083.76	1,092.76
N_Bay5-1_2	VOL08	4.12	3.159E-03	8.00	1.86	6.59	9.00	1,083.17	1,092.17
N_Bay6-1_3	VOL09	4.12	4.738E-03	12.00	2.79	17.01	9.00	1,083.37	1,092.37
N_Bay6-2_2	VOL10	4.12	3.159E-03	8.00	1.86	17.01	9.00	1,083.46	1,092.46
N_Bay7-1_3	VOL11	4.12	4.738E-03	12.00	2.79	17.01	9.00	1,083.66	1,092.66
N_Bay7-2_4	VOL12	4.12	6.317E-03	16.00	3.72	17.01	9.00	1,083.43	1,092.43
N_Bay8-1_4	VOL13	4.12	6.317E-03	16.00	3.72	17.01	9.00	1,083.50	1,092.50
E-Lower_Bay9-1_1	VOL14	4.12	1.579E-03	8.00	1.86	11.48	0.00	1,073.92	1,073.92
E-Lower_Bay10-1_3	VOL15	4.12	4.738E-03	25.00	5.81	11.48	0.00	1,073.26	1,073.26
E-Lower_Bay10-2_2	VOL16	4.12	3.159E-03	12.00	2.79	11.48	0.00	1,072.93	1,072.93
E-Lower_Bay11-1_1	VOL17	4.12	1.579E-03	8.00	1.86	11.48	0.00	1,072.24	1,072.24
E-Elevated_Bay12-1_4	VOL18	4.12	6.317E-03	20.00	4.65	6.95	32.00	1,074.25	1,106.25
E-Elevated_Bay12-2_4	VOL19	4.12	6.317E-03	20.00	4.65	6.95	32.00	1,073.75	1,105.75

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Release Height	Emission Rate	Length of Side	σY	σZ	Add Height (ft)	Default Base Elevation	Adjusted Base Elevation
Road Segment	Volume #	meters	g/s	meters					
Isle_N-1_To-Docks	VOL20	4.12	7.091E-05	18.00	4.19	0.96	1.29	1092.027594	1,093.31
Isle_N-2_To-Docks	VOL21	4.12	7.091E-05	18.00	4.19	0.96	2.57	1091.141767	1,093.71
Isle_N-3_To-Docks	VOL22	4.12	7.091E-05	18.00	4.19	0.96	3.86	1090.321557	1,094.18
Isle_N-4_To-Docks	VOL23	4.12	7.091E-05	18.00	4.19	0.96	5.14	1089.534156	1,094.68
Isle_N-5_To-Docks	VOL24	4.12	7.091E-05	18.00	4.19	0.96	6.43	1088.681137	1,095.11
Isle_N-6_To-Docks	VOL25	4.12	7.091E-05	18.00	4.19	0.96	7.71	1086.9751	1,094.69
Isle_N-7_To-Docks	VOL26	4.12	7.091E-05	18.00	4.19	0.96	9.00	1085.33468	1,094.33
Isle_W-E_1_Interior (Bay 1)	VOL27	4.12	8.343E-06	18.00	4.19	0.96	9.00	1086.286124	1,095.29
Isle_W-E_2_Interior (Bay 1+2)	VOL28	4.12	1.808E-05	18.00	4.19	0.96	9.00	1085.662764	1,094.66
Isle_W-E_3_Interior (Bay 1+2)	VOL29	4.12	1.808E-05	18.00	4.19	0.96	9.00	1084.645704	1,093.65
Isle_W-E_4_Interior (Bay 1-8+12)	VOL30	4.12	7.091E-05	18.00	4.19	0.96	9.00	1084.186386	1,093.19
Isle_W-E_5_Interior (Remove Bay 1-3)	VOL31	4.12	4.727E-05	18.00	4.19	0.96	9.00	1084.284812	1,093.28
Isle_W-E_6_Interior (Remove Bay 1-3)	VOL32	4.12	4.727E-05	18.00	4.19	0.96	9.00	1084.612896	1,093.61
Isle_W-E_7_Interior (Remove Bay 1-3)	VOL33	4.12	4.727E-05	18.00	4.19	0.96	9.00	1085.039405	1,094.04
Isle_W-E_8_Interior (Remove Bay 1-4)	VOL34	4.12	3.337E-05	18.00	4.19	0.96	9.00	1085.203447	1,094.20
Isle_W-E_9_Interior (Remove Bay 1-5)	VOL35	4.12	2.642E-05	18.00	4.19	0.96	9.00	1085.236255	1,094.24
Isle_W-E_10_Interior (Remove Bay 1-6)	VOL36	4.12	1.669E-05	18.00	4.19	0.96	9.00	1084.744129	1,093.74
Isle_W-E_11_Interior (Remove Bay 1-6)	VOL37	4.12	1.669E-05	18.00	4.19	0.96	9.00	1084.219195	1,093.22
Isle_W-E_12_Interior (Remove Bay 1-7)	VOL38	4.12	1.112E-05	18.00	4.19	0.96	9.00	1084.94098	1,093.94
Isle_W-E_13_Interior (Remove Bay 1-8)	VOL39	4.12	1.112E-05	18.00	4.19	0.96	9.00	1084.908171	1,093.91
Isle_W-E_14_Interior (Remove Bay 1-8)	VOL40	4.12	1.112E-05	18.00	4.19	0.96	9.00	1084.350428	1,093.35
Isle_W-E_15_Interior (Remove Bay 1-8)	VOL41	4.12	7.416E-06	12.00	2.79	0.96	11.30	1083.989536	1,095.29
Isle_W-E_16_Interior (Remove Bay 1-8)	VOL42	4.12	7.416E-06	12.00	2.79	0.96	13.60	1083.005284	1,096.61
Isle_W-E_17_Interior (Remove Bay 1-8)	VOL43	4.12	7.416E-06	12.00	2.79	0.96	15.90	1081.791373	1,097.69
Isle_W-E_18_Interior (Remove Bay 1-8)	VOL44	4.12	7.416E-06	12.00	2.79	0.96	18.20	1080.479037	1,098.68
Isle_W-E_19_Interior (Remove Bay 1-8)	VOL45	4.12	7.416E-06	12.00	2.79	0.96	20.50	1079.461977	1,099.96
Isle_W-E_20_Interior (Remove Bay 1-8)	VOL46	4.12	7.416E-06	12.00	2.79	0.96	22.80	1078.740192	1,101.54
Isle_W-E_21_Interior (Remove Bay 1-8)	VOL47	4.12	7.416E-06	12.00	2.79	0.96	25.10	1078.215258	1,103.32
Isle_W-E_22_Interior (Remove Bay 1-8)	VOL48	4.12	7.416E-06	12.00	2.79	0.96	27.40	1077.75594	1,105.16
Isle_W-E_23_Interior (Remove Bay 1-8)	VOL49	4.12	7.416E-06	12.00	2.79	0.96	29.70	1076.640454	1,106.34
Isle_W-E_24_Interior (Remove Bay 1-8)	VOL50	4.12	7.416E-06	12.00	2.79	0.96	32.00	1074.67195	1,106.67
Isle_W-E_25_Interior (Remove Bay 1-8)	VOL51	4.12	7.416E-06	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_26_Interior (Remove Bay 1-8)	VOL52	4.12	7.416E-06	12.00	2.79	0.96	32.00	1074.048591	1,106.05
Isle_W-E_27_Interior (Remove Bay 1-8)	VOL53	4.12	7.416E-06	12.00	2.79	0.96	32.00	1074.212633	1,106.21
Isle_W-E_28_Interior (Remove Bay 1-8)	VOL54	4.12	7.416E-06	12.00	2.79	0.96	32.00	1073.884549	1,105.88
Isle_E-1_To-Docks	VOL55	4.12	9.733E-06	18.00	4.19	0.96	0	1078.182449	1,078.18
Isle_E-2_To-Docks	VOL56	4.12	9.733E-06	18.00	4.19	0.96	0	1076.476412	1,076.48
Isle_E-3_To-Docks	VOL57	4.12	9.733E-06	18.00	4.19	0.96	0	1074.442292	1,074.44
Isle_E-4_To-Docks	VOL58	4.12	9.733E-06	18.00	4.19	0.96	0	1074.245441	1,074.25
Isle_N-S_1_Interior (Bay 9-11)	VOL59	4.12	9.733E-06	18.00	4.19	0.96	0	1074.048591	1,074.05
Isle_N-S_2_Interior (Bay 10-11)	VOL60	4.12	8.343E-06	18.00	4.19	0.96	0	1073.753315	1,073.75
Isle_N-S_3_Interior (Bay 10-11)	VOL61	4.12	8.343E-06	18.00	4.19	0.96	0	1073.392423	1,073.39
Isle_N-S_4_Interior (Bay 10-11)	VOL62	4.12	8.343E-06	18.00	4.19	0.96	0	1073.03153	1,073.03
Isle_N-S_5_Interior (Bay 11)	VOL63	4.12	1.390E-06	18.00	4.19	0.96	0	1072.63783	1,072.64

Offsite Travel - Area Sources	Area #	Release Height	Grams / Sec	Emission Rate
Road Segment		meters		g/s-m ²
Ops_Haven_n/o_Haven&7th	ARLN07	4.12	1.465E-05	3.881E-10
Ops_Haven_s/o_Haven&7th	ARLN08	4.12	2.173E-04	2.135E-09
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	4.12	1.059E-04	2.731E-09
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	4.12	1.439E-04	9.637E-10
Ops_Utica_E-Driveway-to-6th	ARLN11	4.12	9.120E-05	1.471E-09
Ops_6th_e/o-Utica&6th	ARLN12	4.12	1.387E-04	1.073E-09

Generators - Point Sources	STCK #	Grams / Sec
Description		
Generator 1 - Stack 1	STCK01	3.450E-03
Generator 1 - Stack 2	STCK02	3.450E-03
Generator 2 - Stack 1	STCK03	3.450E-03
Generator 2 - Stack 2	STCK04	3.450E-03

Note: For input information, see Generator tab in spreadsheet.

Dock	Adjacent Building Height (meters)	Adjacent Building Height (feet)
Docks 1-5	14.2	46.5
Docks 6-8	36.6	120
Docks 9-11	24.7	81
Dock 12	14.9	49

El Camino Project
AERMOD Source Annual NOx Emissions Estimates

Assume 15 minute/hour idling

Onsite Idling at Loading Docks - Volume Sources	On-Site Idling #	Annual Trucks Idling	Total Idle-Hours	PM Emissions		
Idling Location	Volume #	Trips/yr	Hours/yr	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
N_Bay1-1_3	VOL01	8,765	2,191	121178.88	1.383E+01	3.843E-03
N_Bay1-2_3	VOL02	8,765	2,191	121178.88	1.383E+01	3.843E-03
N_Bay2-1_4	VOL03	11,687	2,922	161571.83	1.844E+01	5.123E-03
N_Bay2-2_3	VOL04	8,765	2,191	121178.88	1.383E+01	3.843E-03
N_Bay3-1_4	VOL05	11,687	2,922	161571.83	1.844E+01	5.123E-03
N_Bay4-1_4	VOL06	11,687	2,922	161571.83	1.844E+01	5.123E-03
N_Bay4-2_4	VOL07	11,687	2,922	161571.83	1.844E+01	5.123E-03
N_Bay5-1_2	VOL08	5,844	1,461	80785.92	9.222E+00	2.562E-03
N_Bay6-1_3	VOL09	8,765	2,191	121178.88	1.383E+01	3.843E-03
N_Bay6-2_2	VOL10	5,844	1,461	80785.92	9.222E+00	2.562E-03
N_Bay7-1_3	VOL11	8,765	2,191	121178.88	1.383E+01	3.843E-03
N_Bay7-2_4	VOL12	11,687	2,922	161571.83	1.844E+01	5.123E-03
N_Bay8-1_4	VOL13	11,687	2,922	161571.83	1.844E+01	5.123E-03
E-Lower_Bay9-1_1	VOL14	2,922	730	40392.96	4.611E+00	1.281E-03
E-Lower_Bay10-1_3	VOL15	8,765	2,191	121178.88	1.383E+01	3.843E-03
E-Lower_Bay10-2_2	VOL16	5,844	1,461	80785.92	9.222E+00	2.562E-03
E-Lower_Bay11-1_1	VOL17	2,922	730	40392.96	4.611E+00	1.281E-03
E-Elevated_Bay12-1_4	VOL18	11,687	2,922	161571.83	1.844E+01	5.123E-03
E-Elevated_Bay12-2_4	VOL19	11,687	2,922	161571.83	1.844E+01	5.123E-03

Emission Factors are for traveling at 10 mph. This is appropriate for travel onsite.

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Annual Trips	On-Site VMT/Trip	Total On-Site VMT	PM Emissions		
Road Segment	Volume #	Trips/yr	miles/Trip	miles/year	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Isle N-1 To-Docks	VOL20	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-2 To-Docks	VOL21	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-3 To-Docks	VOL22	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-4 To-Docks	VOL23	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-5 To-Docks	VOL24	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-6 To-Docks	VOL25	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle N-7 To-Docks	VOL26	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle W-E_1 Interior (Bay 1)	VOL27	35,062	0.011	392	2.974E+03	3.395E-01	9.431E-05
Isle W-E_2 Interior (Bay 1+2)	VOL28	75,967	0.011	850	6.444E+03	7.356E-01	2.043E-04
Isle W-E_3 Interior (Bay 1+2)	VOL29	75,967	0.011	850	6.444E+03	7.356E-01	2.043E-04
Isle W-E_4 Interior (Bay 1-8+12)	VOL30	298,023	0.011	3,333	2.528E+04	2.886E+00	8.016E-04
Isle W-E_5 Interior (Remove Bay 1-3)	VOL31	198,682	0.011	2,222	1.685E+04	1.924E+00	5.344E-04
Isle W-E_6 Interior (Remove Bay 1-3)	VOL32	198,682	0.011	2,222	1.685E+04	1.924E+00	5.344E-04
Isle W-E_7 Interior (Remove Bay 1-3)	VOL33	198,682	0.011	2,222	1.685E+04	1.924E+00	5.344E-04
Isle W-E_8 Interior (Remove Bay 1-4)	VOL34	140,246	0.011	1,569	1.190E+04	1.358E+00	3.772E-04
Isle W-E_9 Interior (Remove Bay 1-5)	VOL35	111,028	0.011	1,242	9.418E+03	1.075E+00	2.986E-04
Isle W-E_10 Interior (Remove Bay 1-6)	VOL36	70,123	0.011	784	5.948E+03	6.790E-01	1.866E-04
Isle W-E_11 Interior (Remove Bay 1-6)	VOL37	70,123	0.011	784	5.948E+03	6.790E-01	1.866E-04
Isle W-E_12 Interior (Remove Bay 1-7)	VOL38	46,749	0.011	523	3.965E+03	4.527E-01	1.257E-04
Isle W-E_13 Interior (Remove Bay 1-8)	VOL39	46,749	0.011	523	3.965E+03	4.527E-01	1.257E-04
Isle W-E_14 Interior (Remove Bay 1-8)	VOL40	46,749	0.011	523	3.965E+03	4.527E-01	1.257E-04
Isle W-E_15 Interior (Remove Bay 1-8)	VOL41	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_16 Interior (Remove Bay 1-8)	VOL42	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_17 Interior (Remove Bay 1-8)	VOL43	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_18 Interior (Remove Bay 1-8)	VOL44	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_19 Interior (Remove Bay 1-8)	VOL45	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_20 Interior (Remove Bay 1-8)	VOL46	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_21 Interior (Remove Bay 1-8)	VOL47	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_22 Interior (Remove Bay 1-8)	VOL48	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_23 Interior (Remove Bay 1-8)	VOL49	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_24 Interior (Remove Bay 1-8)	VOL50	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_25 Interior (Remove Bay 1-8)	VOL51	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_26 Interior (Remove Bay 1-8)	VOL52	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_27 Interior (Remove Bay 1-8)	VOL53	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle W-E_28 Interior (Remove Bay 1-8)	VOL54	46,749	0.007	349	2.644E+03	3.018E-01	8.383E-05
Isle E-1 To-Docks	VOL55	40,905	0.011	458	3.470E+03	3.961E-01	1.100E-04
Isle E-2 To-Docks	VOL56	40,905	0.011	458	3.470E+03	3.961E-01	1.100E-04
Isle E-3 To-Docks	VOL57	40,905	0.011	458	3.470E+03	3.961E-01	1.100E-04
Isle E-4 To-Docks	VOL58	40,905	0.011	458	3.470E+03	3.961E-01	1.100E-04
Isle N-S_1 Interior (Bay 9-11)	VOL59	40,905	0.011	458	3.470E+03	3.961E-01	1.100E-04
Isle N-S_2 Interior (Bay 10-11)	VOL60	35,062	0.011	392	2.974E+03	3.395E-01	9.431E-05
Isle N-S_3 Interior (Bay 10-11)	VOL61	35,062	0.011	392	2.974E+03	3.395E-01	9.431E-05
Isle N-S_4 Interior (Bay 10-11)	VOL62	35,062	0.011	392	2.974E+03	3.395E-01	9.431E-05
Isle N-S_5 Interior (Bay 11)	VOL63	5,844	0.011	65	4.957E+02	5.658E-02	1.572E-05

Note: Length of side is 12.92 meters per volume source characteristics in AERMOD for all on-site travel

Emission Factors are for traveling at 50 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_Haven_n/o_Haven&7th	ARLN07	33,893	0.23	7,830	8.862E+03	1.012E+00	2.810E-04
Ops_Haven_s/o_Haven&7th	ARLN08	186,411	0.62	116,132	1.314E+05	1.500E+01	4.168E-03

Emission Factors are for traveling at 25 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	220,304	0.07	16,071	4.797E+04	5.476E+00	1.521E-03
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	77,720	0.28	21,833	6.517E+04	7.439E+00	2.066E-03
Ops_Utica_E-Driveway-to-6th	ARLN11	118,625	0.12	13,835	4.130E+04	4.714E+00	1.309E-03

Emission Factors are for traveling at 45 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_6th_e/o-Utica&6th	ARLN12	118,625	0.49	58,054	6.995E+04	7.985E+00	2.218E-03

El Camino Project
AERMOD Source Annual PM10 Emissions Estimates

Assume 15 minute/hour idling

Onsite Idling at Loading Docks - Volume Sources	On-Site Idling #	Annual Trucks Idling	Total Idle-Hours	PM Emissions		
Idling Location	Volume #	Trips/yr	Hours/yr	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
N_Bay1-1_3	VOL01	8,765	2,191	64.70	7.386E-03	2.052E-06
N_Bay1-2_3	VOL02	8,765	2,191	64.70	7.386E-03	2.052E-06
N_Bay2-1_4	VOL03	11,687	2,922	86.27	9.848E-03	2.736E-06
N_Bay2-2_3	VOL04	8,765	2,191	64.70	7.386E-03	2.052E-06
N_Bay3-1_4	VOL05	11,687	2,922	86.27	9.848E-03	2.736E-06
N_Bay4-1_4	VOL06	11,687	2,922	86.27	9.848E-03	2.736E-06
N_Bay4-2_4	VOL07	11,687	2,922	86.27	9.848E-03	2.736E-06
N_Bay5-1_2	VOL08	5,844	1,461	43.13	4.924E-03	1.368E-06
N_Bay6-1_3	VOL09	8,765	2,191	64.70	7.386E-03	2.052E-06
N_Bay6-2_2	VOL10	5,844	1,461	43.13	4.924E-03	1.368E-06
N_Bay7-1_3	VOL11	8,765	2,191	64.70	7.386E-03	2.052E-06
N_Bay7-2_4	VOL12	11,687	2,922	86.27	9.848E-03	2.736E-06
N_Bay8-1_4	VOL13	11,687	2,922	86.27	9.848E-03	2.736E-06
E-Lower_Bay9-1_1	VOL14	2,922	730	21.57	2.462E-03	6.839E-07
E-Lower_Bay10-1_3	VOL15	8,765	2,191	64.70	7.386E-03	2.052E-06
E-Lower_Bay10-2_2	VOL16	5,844	1,461	43.13	4.924E-03	1.368E-06
E-Lower_Bay11-1_1	VOL17	2,922	730	21.57	2.462E-03	6.839E-07
E-Elevated_Bay12-1_4	VOL18	11,687	2,922	86.27	9.848E-03	2.736E-06
E-Elevated_Bay12-2_4	VOL19	11,687	2,922	86.27	9.848E-03	2.736E-06

Emission Factors are for traveling at 10 mph. This is appropriate for travel on-site.

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Annual Trips	On-Site VMT/Trip	Total On-Site VMT	PM Emissions		
Road Segment	Volume #	Trips/yr	miles/Trip	miles/year	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Isle_N-1_To-Docks	VOL20	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-2_To-Docks	VOL21	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-3_To-Docks	VOL22	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-4_To-Docks	VOL23	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-5_To-Docks	VOL24	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-6_To-Docks	VOL25	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_N-7_To-Docks	VOL26	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_W-E_1 Interior (Bay 1)	VOL27	35,062	0.011	392	5.859E+00	6.688E-04	1.858E-07
Isle_W-E_2 Interior (Bay 1+2)	VOL28	75,967	0.011	850	1.269E+01	1.449E-03	4.025E-07
Isle_W-E_3 Interior (Bay 1+2)	VOL29	75,967	0.011	850	1.269E+01	1.449E-03	4.025E-07
Isle_W-E_4 Interior (Bay 1-8+12)	VOL30	298,023	0.011	3,333	4.980E+01	5.685E-03	1.579E-06
Isle_W-E_5 Interior (Remove Bay 1-3)	VOL31	198,682	0.011	2,222	3.320E+01	3.790E-03	1.053E-06
Isle_W-E_6 Interior (Remove Bay 1-3)	VOL32	198,682	0.011	2,222	3.320E+01	3.790E-03	1.053E-06
Isle_W-E_7 Interior (Remove Bay 1-3)	VOL33	198,682	0.011	2,222	3.320E+01	3.790E-03	1.053E-06
Isle_W-E_8 Interior (Remove Bay 1-4)	VOL34	140,246	0.011	1,569	2.344E+01	2.675E-03	7.431E-07
Isle_W-E_9 Interior (Remove Bay 1-5)	VOL35	111,028	0.011	1,242	1.855E+01	2.118E-03	5.883E-07
Isle_W-E_10 Interior (Remove Bay 1-6)	VOL36	70,123	0.011	784	1.172E+01	1.338E-03	3.716E-07
Isle_W-E_11 Interior (Remove Bay 1-6)	VOL37	70,123	0.011	784	1.172E+01	1.338E-03	3.716E-07
Isle_W-E_12 Interior (Remove Bay 1-7)	VOL38	46,749	0.011	523	7.812E+00	8.918E-04	2.477E-07
Isle_W-E_13 Interior (Remove Bay 1-8)	VOL39	46,749	0.011	523	7.812E+00	8.918E-04	2.477E-07
Isle_W-E_14 Interior (Remove Bay 1-8)	VOL40	46,749	0.011	523	7.812E+00	8.918E-04	2.477E-07
Isle_W-E_15 Interior (Remove Bay 1-8)	VOL41	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_16 Interior (Remove Bay 1-8)	VOL42	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_17 Interior (Remove Bay 1-8)	VOL43	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_18 Interior (Remove Bay 1-8)	VOL44	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_19 Interior (Remove Bay 1-8)	VOL45	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_20 Interior (Remove Bay 1-8)	VOL46	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_21 Interior (Remove Bay 1-8)	VOL47	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_22 Interior (Remove Bay 1-8)	VOL48	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_23 Interior (Remove Bay 1-8)	VOL49	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_24 Interior (Remove Bay 1-8)	VOL50	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_25 Interior (Remove Bay 1-8)	VOL51	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_26 Interior (Remove Bay 1-8)	VOL52	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_27 Interior (Remove Bay 1-8)	VOL53	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_W-E_28 Interior (Remove Bay 1-8)	VOL54	46,749	0.007	349	5.208E+00	5.945E-04	1.651E-07
Isle_E-1_To-Docks	VOL55	40,905	0.011	458	6.835E+00	7.803E-04	2.167E-07
Isle_E-2_To-Docks	VOL56	40,905	0.011	458	6.835E+00	7.803E-04	2.167E-07
Isle_E-3_To-Docks	VOL57	40,905	0.011	458	6.835E+00	7.803E-04	2.167E-07
Isle_E-4_To-Docks	VOL58	40,905	0.011	458	6.835E+00	7.803E-04	2.167E-07
Isle_N-S_1 Interior (Bay 9-11)	VOL59	40,905	0.011	458	6.835E+00	7.803E-04	2.167E-07
Isle_N-S_2 Interior (Bay 10-11)	VOL60	35,062	0.011	392	5.859E+00	6.688E-04	1.858E-07
Isle_N-S_3 Interior (Bay 10-11)	VOL61	35,062	0.011	392	5.859E+00	6.688E-04	1.858E-07
Isle_N-S_4 Interior (Bay 10-11)	VOL62	35,062	0.011	392	5.859E+00	6.688E-04	1.858E-07
Isle_N-S_5 Interior (Bay 11)	VOL63	5,844	0.011	65	9.765E-01	1.115E-04	3.096E-08

Note: Length of side is 12.92 meters per volume source characteristics in AERMOD for all on-site travel

Emission Factors are for traveling at 50 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_Haven_n/o_Haven&7th	ARLN07	33,893	0.23	7,830	1.280E+02	1.461E-02	4.058E-06
Ops_Haven_s/o_Haven&7th	ARLN08	186,411	0.62	116,132	1.898E+03	2.167E-01	6.019E-05

Emission Factors are for traveling at 25 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	220,304	0.07	16,071	1.325E+02	1.513E-02	4.203E-06
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	77,720	0.28	21,833	1.801E+02	2.055E-02	5.710E-06
Ops_Utica_E-Driveway-to-6th	ARLN11	118,625	0.12	13,835	1.141E+02	1.303E-02	3.618E-06

Emission Factors are for traveling at 45 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_6th_e/o-Utica&6th	ARLN12	118,625	0.49	58,054	7.494E+02	8.555E-02	2.376E-05

El Camino Project
AERMOD Source Annual CO Emissions Estimates

Assume 15 minute/hour idling

Onsite Idling at Loading Docks - Volume Sources	On-Site Idling #	Annual Trucks Idling	Total Idle-Hours	PM Emissions		
Idling Location	Volume #	Trips/yr	Hours/yr	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
N_Bay1-1_3	VOL01	8,765	2,191	149410.46	1.706E+01	4.738E-03
N_Bay1-2_3	VOL02	8,765	2,191	149410.46	1.706E+01	4.738E-03
N_Bay2-1_4	VOL03	11,687	2,922	199213.95	2.274E+01	6.317E-03
N_Bay2-2_3	VOL04	8,765	2,191	149410.46	1.706E+01	4.738E-03
N_Bay3-1_4	VOL05	11,687	2,922	199213.95	2.274E+01	6.317E-03
N_Bay4-1_4	VOL06	11,687	2,922	199213.95	2.274E+01	6.317E-03
N_Bay4-2_4	VOL07	11,687	2,922	199213.95	2.274E+01	6.317E-03
N_Bay5-1_2	VOL08	5,844	1,461	99606.97	1.137E+01	3.159E-03
N_Bay6-1_3	VOL09	8,765	2,191	149410.46	1.706E+01	4.738E-03
N_Bay6-2_2	VOL10	5,844	1,461	99606.97	1.137E+01	3.159E-03
N_Bay7-1_3	VOL11	8,765	2,191	149410.46	1.706E+01	4.738E-03
N_Bay7-2_4	VOL12	11,687	2,922	199213.95	2.274E+01	6.317E-03
N_Bay8-1_4	VOL13	11,687	2,922	199213.95	2.274E+01	6.317E-03
E-Lower_Bay9-1_1	VOL14	2,922	730	49803.49	5.685E+00	1.579E-03
E-Lower_Bay10-1_3	VOL15	8,765	2,191	149410.46	1.706E+01	4.738E-03
E-Lower_Bay10-2_2	VOL16	5,844	1,461	99606.97	1.137E+01	3.159E-03
E-Lower_Bay11-1_1	VOL17	2,922	730	49803.49	5.685E+00	1.579E-03
E-Elevated_Bay12-1_4	VOL18	11,687	2,922	199213.95	2.274E+01	6.317E-03
E-Elevated_Bay12-2_4	VOL19	11,687	2,922	199213.95	2.274E+01	6.317E-03

Emission Factors are for traveling at 10 mph. This is appropriate for travel onsite.

Onsite Travel to Building Loading Docks - Volume Sources	On-Site Truck Travel	Annual Trips	On-Site VMT/Trip	Total On-Site VMT	PM Emissions		
Road Segment	Volume #	Trips/yr	miles/Trip	miles/year	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Isle_N-1_To-Docks	VOL20	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-2_To-Docks	VOL21	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-3_To-Docks	VOL22	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-4_To-Docks	VOL23	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-5_To-Docks	VOL24	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-6_To-Docks	VOL25	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_N-7_To-Docks	VOL26	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_W-E_1_Interior (Bay 1)	VOL27	35,062	0.011	392	2.631E+02	3.003E-02	8.343E-06
Isle_W-E_2_Interior (Bay 1+2)	VOL28	75,967	0.011	850	5.700E+02	6.507E-02	1.808E-05
Isle_W-E_3_Interior (Bay 1+2)	VOL29	75,967	0.011	850	5.700E+02	6.507E-02	1.808E-05
Isle_W-E_4_Interior (Bay 1-8+12)	VOL30	298,023	0.011	3,333	2.236E+03	2.553E-01	7.091E-05
Isle_W-E_5_Interior (Remove Bay 1-3)	VOL31	198,682	0.011	2,222	1.491E+03	1.702E-01	4.727E-05
Isle_W-E_6_Interior (Remove Bay 1-3)	VOL32	198,682	0.011	2,222	1.491E+03	1.702E-01	4.727E-05
Isle_W-E_7_Interior (Remove Bay 1-3)	VOL33	198,682	0.011	2,222	1.491E+03	1.702E-01	4.727E-05
Isle_W-E_8_Interior (Remove Bay 1-4)	VOL34	140,246	0.011	1,569	1.052E+03	1.201E-01	3.337E-05
Isle_W-E_9_Interior (Remove Bay 1-5)	VOL35	111,028	0.011	1,242	8.331E+02	9.511E-02	2.642E-05
Isle_W-E_10_Interior (Remove Bay 1-6)	VOL36	70,123	0.011	784	5.262E+02	6.007E-02	1.669E-05
Isle_W-E_11_Interior (Remove Bay 1-6)	VOL37	70,123	0.011	784	5.262E+02	6.007E-02	1.669E-05
Isle_W-E_12_Interior (Remove Bay 1-7)	VOL38	46,749	0.011	523	3.508E+02	4.004E-02	1.112E-05
Isle_W-E_13_Interior (Remove Bay 1-8)	VOL39	46,749	0.011	523	3.508E+02	4.004E-02	1.112E-05
Isle_W-E_14_Interior (Remove Bay 1-8)	VOL40	46,749	0.011	523	3.508E+02	4.004E-02	1.112E-05
Isle_W-E_15_Interior (Remove Bay 1-8)	VOL41	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_16_Interior (Remove Bay 1-8)	VOL42	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_17_Interior (Remove Bay 1-8)	VOL43	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_18_Interior (Remove Bay 1-8)	VOL44	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_19_Interior (Remove Bay 1-8)	VOL45	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_20_Interior (Remove Bay 1-8)	VOL46	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_21_Interior (Remove Bay 1-8)	VOL47	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_22_Interior (Remove Bay 1-8)	VOL48	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_23_Interior (Remove Bay 1-8)	VOL49	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_24_Interior (Remove Bay 1-8)	VOL50	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_25_Interior (Remove Bay 1-8)	VOL51	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_26_Interior (Remove Bay 1-8)	VOL52	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_27_Interior (Remove Bay 1-8)	VOL53	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_W-E_28_Interior (Remove Bay 1-8)	VOL54	46,749	0.007	349	2.339E+02	2.670E-02	7.416E-06
Isle_E-1_To-Docks	VOL55	40,905	0.011	458	3.069E+02	3.504E-02	9.733E-06
Isle_E-2_To-Docks	VOL56	40,905	0.011	458	3.069E+02	3.504E-02	9.733E-06
Isle_E-3_To-Docks	VOL57	40,905	0.011	458	3.069E+02	3.504E-02	9.733E-06
Isle_E-4_To-Docks	VOL58	40,905	0.011	458	3.069E+02	3.504E-02	9.733E-06
Isle_N-S_1_Interior (Bay 9-11)	VOL59	40,905	0.011	458	3.069E+02	3.504E-02	9.733E-06
Isle_N-S_2_Interior (Bay 10-11)	VOL60	35,062	0.011	392	2.631E+02	3.003E-02	8.343E-06
Isle_N-S_3_Interior (Bay 10-11)	VOL61	35,062	0.011	392	2.631E+02	3.003E-02	8.343E-06
Isle_N-S_4_Interior (Bay 10-11)	VOL62	35,062	0.011	392	2.631E+02	3.003E-02	8.343E-06
Isle_N-S_5_Interior (Bay 11)	VOL63	5,844	0.011	65	4.385E+01	5.006E-03	1.390E-06

Note: Length of side is 12.92 meters per volume source characteristics in AERMOD for all on-site travel

Emission Factors are for traveling at 50 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_Haven_n/o_Haven&7th	ARLN07	33,893	0.23	7,830	4.621E+02	5.275E-02	1.465E-05
Ops_Haven_s/o_Haven&7th	ARLN08	186,411	0.62	116,132	6.854E+03	7.824E-01	2.173E-04

Emission Factors are for traveling at 25 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_7th_e/o_Haven&7th-to-7th-Driveway	ARLN09	220,304	0.07	16,071	3.341E+03	3.814E-01	1.059E-04
Ops_7th_e/o_7th-Driveway-to-E-Driveway	ARLN10	77,720	0.28	21,833	4.539E+03	5.181E-01	1.439E-04
Ops_Utica_E-Driveway-to-6th	ARLN11	118,625	0.12	13,835	2.876E+03	3.283E-01	9.120E-05

Emission Factors are for traveling at 45 mph

Offsite Travel to Building Loading Docks - Area Sources	Off-Site Truck Travel	Annual Trips	Off-Site VMT/Trip	Off-site Travel Distance	PM Emissions		
Road Segment	Area #	Trips/yr	miles/Trip	VMT / YR	Annual Grams/Yr	Avg Grams/Hr	Avg Grams/Sec
Ops_6th_e/o-Utica&6th	ARLN12	118,625	0.49	58,054	4.373E+03	4.992E-01	1.387E-04

El Camino Project

Truck Trip / Idle Distribution for AERMOD Source Input Data

Land Use	ITE Code	Unit	Qty	Rate	Total Trips	Truck Trips
Warehousing	150					1300

Vehicle Class	%	Average Daily Trips	Average Hourly Trips	IN	OUT
LHDT1	3.6%	46.69	1.95	0.97	0.97
LHDT2	1.6%	20.31	0.85	0.42	0.42
MHDT	3.8%	49.00	2.04	1.02	1.02
HHDT	91.1%	1184.00	49.33	24.67	24.67
Total	100.0%	1300.00	54.17	27.08	27.08

Area Sources		Inbound		Outbound		Total
Road Segment	Area #	%	Trips/HR	%	Trips/HR	Trips/HR
Offsite Truck Travel - Area Sources						
West 5th Street Traffic						
Ops Haven_n/o Haven&7th	ARLN07	0.10	2.71	0.10	2.71	5.42
Ops Haven_s/o Haven&7th	ARLN08	0.55	14.90	0.55	14.90	29.79
Ops 7th_e/o Haven&7th-to-7th-Driveway	ARLN09	0.65	17.60	0.65	17.60	35.21
Ops 7th_e/o 7th-Driveway-to-E-Driveway	ARLN10	0.23	6.21	0.23	6.21	12.42
Ops Utica_E-Driveway-to-6th	ARLN11	0.35	9.48	0.35	9.48	18.96
Ops 6th_e/o-Utica&6th	ARLN12	0.35	9.48	0.35	9.48	18.96

Volume Sources		Inbound		Outbound		Total	Add Height (ft)	AERMOD Def Height (m)	AERMOD Def Height (ft)	ADJ Height
Road Segment	Volume #	%	Trips/HR	%	Trips/HR	Trips/HR				
Driveways										
Isle N-1 To-Docks	VOL20	0.88	23.81	0.88	23.81	47.63	1.29	332.85	1092.03	1093.31
Isle N-2 To-Docks	VOL21	0.88	23.81	0.88	23.81	47.63	2.57	332.58	1091.14	1093.71
Isle N-3 To-Docks	VOL22	0.88	23.81	0.88	23.81	47.63	3.86	332.33	1090.32	1094.18
Isle N-4 To-Docks	VOL23	0.88	23.81	0.88	23.81	47.63	5.14	332.09	1089.53	1094.68
Isle N-5 To-Docks	VOL24	0.88	23.81	0.88	23.81	47.63	6.43	331.83	1088.68	1095.11
Isle N-6 To-Docks	VOL25	0.88	23.81	0.88	23.81	47.63	7.71	331.31	1086.98	1094.69
Isle N-7 To-Docks	VOL26	0.88	23.81	0.88	23.81	47.63	9.00	330.81	1085.33	1094.33
Isle E-1 To-Docks	VOL55	0.12	3.27	0.12	3.27	6.54	--	--	--	--
Isle E-2 To-Docks	VOL56	0.12	3.27	0.12	3.27	6.54	--	--	--	--
Isle E-3 To-Docks	VOL57	0.12	3.27	0.12	3.27	6.54	--	--	--	--
Isle E-4 To-Docks	VOL58	0.12	3.27	0.12	3.27	6.54	--	--	--	--
Onsite Travel Drive Aisle										
Isle W-E 1 Interior (Bay 1)	VOL27	0.10	2.80	0.10	2.80	5.60	9.00	331.1	1086.29	1095.29
Isle W-E 2 Interior (Bay 1+2)	VOL28	0.22	6.07	0.22	6.07	12.14	9.00	330.91	1085.66	1094.66
Isle W-E 3 Interior (Bay 1+2)	VOL29	0.22	6.07	0.22	6.07	12.14	9.00	330.6	1084.65	1093.65
Isle W-E 4 Interior (Bay 1-8+12)	VOL30	0.88	23.81	0.88	23.81	47.63	9.00	330.46	1084.19	1093.19
Isle W-E 5 Interior (Remove Bay 1-3)	VOL31	0.59	15.88	0.59	15.88	31.75	9.00	330.49	1084.28	1093.28
Isle W-E 6 Interior (Remove Bay 1-3)	VOL32	0.59	15.88	0.59	15.88	31.75	9.00	330.59	1084.61	1093.61
Isle W-E 7 Interior (Remove Bay 1-3)	VOL33	0.59	15.88	0.59	15.88	31.75	9.00	330.72	1085.04	1094.04
Isle W-E 8 Interior (Remove Bay 1-4)	VOL34	0.41	11.21	0.41	11.21	22.41	9.00	330.77	1085.20	1094.20
Isle W-E 9 Interior (Remove Bay 1-5)	VOL35	0.33	8.87	0.33	8.87	17.74	9.00	330.78	1085.24	1094.24
Isle W-E 10 Interior (Remove Bay 1-6)	VOL36	0.21	5.60	0.21	5.60	11.21	9.00	330.63	1084.74	1093.74
Isle W-E 11 Interior (Remove Bay 1-6)	VOL37	0.21	5.60	0.21	5.60	11.21	9.00	330.47	1084.22	1093.22
Isle W-E 12 Interior (Remove Bay 1-7)	VOL38	0.14	3.74	0.14	3.74	7.47	9.00	330.69	1084.94	1093.94
Isle W-E 13 Interior (Remove Bay 1-8)	VOL39	0.14	3.74	0.14	3.74	7.47	9.00	330.68	1084.91	1093.91
Isle W-E 14 Interior (Remove Bay 1-8)	VOL40	0.14	3.74	0.14	3.74	7.47	9.00	330.51	1084.35	1093.35
Isle W-E 15 Interior (Remove Bay 1-8)	VOL41	0.14	3.74	0.14	3.74	7.47	11.3	330.4	1083.99	1095.29
Isle W-E 16 Interior (Remove Bay 1-8)	VOL42	0.14	3.74	0.14	3.74	7.47	13.6	330.1	1083.01	1096.61
Isle W-E 17 Interior (Remove Bay 1-8)	VOL43	0.14	3.74	0.14	3.74	7.47	15.9	329.73	1081.79	1097.69
Isle W-E 18 Interior (Remove Bay 1-8)	VOL44	0.14	3.74	0.14	3.74	7.47	18.2	329.33	1080.48	1098.68
Isle W-E 19 Interior (Remove Bay 1-8)	VOL45	0.14	3.74	0.14	3.74	7.47	20.5	329.02	1079.46	1099.96
Isle W-E 20 Interior (Remove Bay 1-8)	VOL46	0.14	3.74	0.14	3.74	7.47	22.8	328.8	1078.74	1101.54
Isle W-E 21 Interior (Remove Bay 1-8)	VOL47	0.14	3.74	0.14	3.74	7.47	25.1	328.64	1078.22	1103.32
Isle W-E 22 Interior (Remove Bay 1-8)	VOL48	0.14	3.74	0.14	3.74	7.47	27.4	328.5	1077.76	1105.16
Isle W-E 23 Interior (Remove Bay 1-8)	VOL49	0.14	3.74	0.14	3.74	7.47	29.7	328.16	1076.64	1106.34
Isle W-E 24 Interior (Remove Bay 1-8)	VOL50	0.14	3.74	0.14	3.74	7.47	32	327.56	1074.67	1106.67
Isle W-E 25 Interior (Remove Bay 1-8)	VOL51	0.14	3.74	0.14	3.74	7.47	32	327.37	1074.05	1106.05
Isle W-E 26 Interior (Remove Bay 1-8)	VOL52	0.14	3.74	0.14	3.74	7.47	32	327.37	1074.05	1106.05
Isle W-E 27 Interior (Remove Bay 1-8)	VOL53	0.14	3.74	0.14	3.74	7.47	32	327.42	1074.21	1106.21
Isle W-E 28 Interior (Remove Bay 1-8)	VOL54	0.14	3.74	0.14	3.74	7.47	32	327.32	1073.88	1105.88
Isle N-S 1 Interior (Bay 9-11)	VOL59	0.12	3.27	0.12	3.27	6.54	--	--	--	--
Isle N-S 2 Interior (Bay 10-11)	VOL60	0.10	2.80	0.10	2.80	5.60	--	--	--	--
Isle N-S 3 Interior (Bay 10-11)	VOL61	0.10	2.80	0.10	2.80	5.60	--	--	--	--
Isle N-S 4 Interior (Bay 10-11)	VOL62	0.10	2.80	0.10	2.80	5.60	--	--	--	--
Isle N-S 5 Interior (Bay 11)	VOL63	0.02	0.47	0.02	0.47	0.93	--	--	--	--

Volume Sources		Inbound		Outbound		Total	Add Height (ft)	AERMOD Def Height (m)	AERMOD Def Height (ft)	ADJ Height
Idling Location	Volume #	%	Trips/HR	%	Trips/HR	Trips/HR				
Idling at Building										
N_Bay1-1_3	VOL01	0.05	1.40	0.05	1.40	2.80	9.00	330.73	1085.07	1094.07
N_Bay1-2_3	VOL02	0.05	1.40	0.05	1.40	2.80	9.00	330.69	1084.94	1093.94
N_Bay2-1_4	VOL03	0.07	1.87	0.07	1.87	3.74	9.00	330.54	1084.45	1093.45
N_Bay2-2_3	VOL04	0.05	1.40	0.05	1.40	2.80	9.00	330.27	1083.56	1092.56
N_Bay3-1_4	VOL05	0.07	1.87	0.07	1.87	3.74	9.00	330.16	1083.20	1092.20
N_Bay4-1_4	VOL06	0.07	1.87	0.07	1.87	3.74	9.00	330.21	1083.37	1092.37
N_Bay4-2_4	VOL07	0.07	1.87	0.07	1.87	3.74	9.00	330.33	1083.76	1092.76
N_Bay5-1_2	VOL08	0.03	0.93	0.03	0.93	1.87	9.00	330.15	1083.17	1092.17
N_Bay6-1_3	VOL09	0.05	1.40	0.05	1.40	2.80	9.00	330.21	1083.37	1092.37
N_Bay6-2_2	VOL10	0.03	0.93	0.03	0.93	1.87	9.00	330.24	1083.46	1092.46
N_Bay7-1_3	VOL11	0.05	1.40	0.05	1.40	2.80	9.00	330.3	1083.66	1092.66
N_Bay7-2_4	VOL12	0.07	1.87	0.07	1.87	3.74	9.00	330.23	1083.43	1092.43
N_Bay8-1_4	VOL13	0.07	1.87	0.07	1.87	3.74	9.00	330.25	1083.50	1092.50
E-Lower_Bay9-1_1	VOL14	0.02	0.47	0.02	0.47	0.93	--	--	--	--
E-Lower_Bay10-1_3	VOL15	0.05	1.40	0.05	1.40	2.80	--	--	--	--
E-Lower_Bay10-2_2	VOL16	0.03	0.93	0.03	0.93	1.87	--	--	--	--
E-Lower_Bay11-1_1	VOL17	0.02	0.47	0.02	0.47	0.93	--	--	--	--
E-Elevated_Bay12-1_4	VOL18	0.07	1.87	0.07	1.87	3.74	32	327.43	1074.25	1106.25
E-Elevated_Bay12-2_4	VOL19	0.07	1.87	0.07	1.87	3.74	32	327.28	1073.75	1105.75

Point Sources	
Description	STCK #
Emergency BUG1, Exhaust 1	STCK01
Emergency BUG1, Exhaust 2	STCK02
Emergency BUG2, Exhaust 1	STCK03
Emergency BUG2, Exhaust 2	STCK04

Add Height (ft)	AERMOD Def Height (m)	AERMOD Def Height (ft)	ADJ Height
9.00	330.43	1084.09	1093.09
9.00	330.38	1083.92	1092.92
9.00	330.29	1083.63	1092.63
9.00	330.24	1083.46	1092.46

El Camino Project

EMFAC-Derived Composite Truck Trip / Idle Emission Factors

Land Use	ITE Code	Unit	Qty	Rate	Daily Trips	Truck Trips
Warehousing						1300

Vehicle Category	% Fleet	ADT	AHT	IN	OUT
LHDT1	3.6%	46.689	1.945	0.973	0.973
LHDT2	1.6%	20.311	0.846	0.423	0.423
MHDT	3.8%	49.000	2.042	1.021	1.021
HHDT	91.1%	1184.000	49.333	24.667	24.667
TOTAL	100.0%	1300.00	54.17	27.08	27.08

COMPOSITE NOx EMISSION FACTORS						
Truck Category	% Fleet	IDLE EX (g/vehicle-day)	RUN EX (10 MPH) (g/mile)	RUN EX (25 MPH) (g/mile)	RUN EX (45 MPH) (g/mile)	RUN EX (50 MPH) (g/mile)
LHDT1	3.6%	1.9124	1.7916	1.4484	1.2730	1.2802
LHDT2	1.6%	1.8666	1.6294	1.2219	0.9860	0.9827
MHDT	3.8%	10.9308	2.2358	1.0001	0.4837	0.4649
HHDT	91.1%	60.1568	8.1358	3.1577	1.2359	1.1561
COMPOSITE EMFAC	100.0%	55.2988	7.5839	2.9848	1.2049	1.1318

COMPOSITE PM10 EMISSION FACTORS						
Truck Category	% Fleet	IDLE EX (g/vehicle-day)	RUN EX (10 MPH) (g/mile)	RUN EX (25 MPH) (g/mile)	RUN EX (45 MPH) (g/mile)	RUN EX (50 MPH) (g/mile)
LHDT1	3.6%	0.0274	0.0705	0.0401	0.0208	0.0190
LHDT2	1.6%	0.0276	0.0663	0.0385	0.0200	0.0182
MHDT	3.8%	0.0136	0.0190	0.0064	0.0056	0.0066
HHDT	91.1%	0.0303	0.0117	0.0065	0.0128	0.0166
COMPOSITE EMFAC	100.0%	0.0295	0.0149	0.0082	0.0129	0.0163

COMPOSITE CO EMISSION FACTORS						
Truck Category	% Fleet	IDLE EX (g/vehicle-day)	RUN EX (10 MPH) (g/mile)	RUN EX (25 MPH) (g/mile)	RUN EX (45 MPH) (g/mile)	RUN EX (50 MPH) (g/mile)
LHDT1	3.6%	0.9097	0.9661	0.5029	0.2160	0.1914
LHDT2	1.6%	0.9097	0.8886	0.4665	0.1832	0.1549
MHDT	3.8%	7.4064	0.2862	0.1007	0.0485	0.0429
HHDT	91.1%	74.5040	0.6714	0.1963	0.0690	0.0528
COMPOSITE EMFAC	100.0%	68.1820	0.6709	0.2079	0.0753	0.0590

El Camino Project
AERMOD Generator and TRU Source Information

Emergency Generator Emissions

Generator Name	Size (kW)	Size (hp)	Operations (hours/year)	Load Factor
Gen1	1500	2011.5	200	0.73
Gen2	1500	2011.5	200	0.73

PM10 EF (g/hp-hr)	Annual Emissions	Emissions Rate (g/s)	Emissions Rate Per Exhaust Point (g/s)	NOx EF (g/hp-hr)	Annual Emissions	Emissions Rate (g/s)	Emissions Rate Per	CO EF (g/hp-hr)	Annual Emissions	Emissions Rate (g/s)	Emissions Rate Per
0.09	26431.11	0.000977813	0.000488906	4.855742	1426029.38	0.052755611	0.02637781	0.635	186486.17	0.006899	0.00345
0.09	26431.11	0.000977813	0.000488906	4.855742	1426029.38	0.052755611	0.02637781	0.635	186486.17	0.006899	0.00345

TRUs

Source	Air Pollutant Emissions (g/s)		Area (m^2)	Air Pollutant Emissions (g/s/m^2)	
	NOx	PM10		NOx	PM10
Trailer TRU	0.001585398	8.86555E-05	157.916	1.00395E-05	5.6141E-07

Conversion Rates	
s/day	g/lbs
86400	453.5924

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/c

Region	Calendar Yr	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	CVMT	EVMT	Trips	NOx_RUNE	NOx_IDLEX
San Bernar	2026	HHDT	Aggregate	Aggregate	Diesel	15084.77	1831295	1831295	0	228328.7	1.676724	60.15675
San Bernar	2026	LHDT1	Aggregate	Aggregate	Diesel	11393.65	431830.7	431830.7	0	143317.8	1.412793	1.912358
San Bernar	2026	LHDT2	Aggregate	Aggregate	Diesel	4937.577	187863.3	187863.3	0	62108.51	1.114475	1.866596
San Bernar	2026	MHDT	Aggregate	Aggregate	Diesel	15710.21	665955.7	665955.7	0	192892.8	0.657532	10.93078

day for IDLEX and DIURN. PHEV calculated based on total VMT.

NOx_STRE	PM2.5_RUI	PM2.5_IDL	PM2.5_STF	PM2.5_PM	PM2.5_PM	PM10_RUN	PM10_IDLE	PM10_STR	PM10_PM	PM10_PM	CO2_RUN	CO2_IDLEX
2.863757	0.025938	0.028989	0	0.008791	0.026628	0.02711	0.030299	0	0.035165	0.076079	1552.98	11628.91
0	0.022863	0.026248	0	0.003	0.0273	0.023896	0.027435	0	0.012	0.078	486.0547	130.669
0	0.021636	0.026445	0	0.003	0.03185	0.022614	0.027641	0	0.012	0.091	577.5305	209.0002
1.655732	0.00808	0.013018	0	0.003	0.014894	0.008446	0.013607	0	0.012	0.042555	1072.739	2152.836

CO2_STRE	CH4_RUNE	CH4_IDLE	CH4_STRE	N2O_RUNE	N2O_IDLE	N2O_STRE	ROG_RUNE	ROG_IDLE	ROG_STRE	ROG_HOTS	ROG_RUNI	ROG_DIUR
0	0.000577	0.236778	0	0.244673	1.83214	0	0.012426	5.097764	0	0	0	0
0	0.004412	0.005098	0	0.076578	0.020587	0	0.094977	0.10976	0	0	0	0
0	0.004075	0.005098	0	0.09099	0.032928	0	0.087726	0.10976	0	0	0	0
0	0.000531	0.009396	0	0.16901	0.33918	0	0.011435	0.202285	0	0	0	0

TOG_RUNE	TOG_IDLE	TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_DIUR	NH3_RUNE	CO_RUNEX	CO_IDLE	CO_STREX	SOx_RUNE	SOx_IDLE	SOx_STREX
0.014146	5.803416	0	0	0	0	0.215971	0.059114	74.50396	0	0.014706	0.110119	0
0.108125	0.124954	0	0	0	0	0.175259	0.283332	0.909745	0	0.004606	0.001238	0
0.099871	0.124954	0	0	0	0	0.183882	0.227064	0.909745	0	0.005472	0.00198	0
0.013017	0.230286	0	0	0	0	0.21604	0.054428	7.406441	0	0.010158	0.020386	0

Source: EMFAC2021 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: San Bernardino (SC)

Calendar Year: 2026

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consumption. PHEV calculated based on total VMT.

Region	Calendar Y	Vehicle Cat	Model Year	Speed	Fuel	Total VMT	CVMT	EVMT	NOx_RUNE	PM2.5_RUNE	PM10_RUNEX	CO2_RUNE	CH4_RUNE	N2O_RUNE	ROG_RUNE	TOG_RUNE	CO_RUNEX	SOx_RUNE	NH3_RUNE	PM10_PMI	PM2.5_PM	Fuel Consu	Energy Consumption
San Bernar	2026	HHDT	Aggregate	10	Diesel	297.6461	297.6461	0	8.135804	0.011194	0.011700112	2741.54	0.00341	0.431931	0.073426	0.08359	0.671438	0.025961	0.21307	0.140524	0.049183	0.269957	0
San Bernar	2026	HHDT	Aggregate	25	Diesel	27295.58	27295.58	0	3.157711	0.006264	0.006547552	1770.7	0.000781	0.278975	0.016813	0.01914	0.196253	0.016767	0.21484	0.132255	0.046289	0.174359	0
San Bernar	2026	HHDT	Aggregate	45	Diesel	89536.89	89536.89	0	1.235866	0.012225	0.012777974	1449.349	0.000422	0.228346	0.009086	0.010344	0.069042	0.013724	0.21496	0.082752	0.028963	0.142716	0
San Bernar	2026	HHDT	Aggregate	50	Diesel	77025.79	77025.79	0	1.156096	0.01589	0.016608886	1442.302	0.000418	0.227235	0.009006	0.010252	0.052818	0.013658	0.214758	0.072747	0.025461	0.142022	0
San Bernar	2026	LHDT1	Aggregate	10	Diesel	115.5755	115.5755	0	1.791572	0.067473	0.070523452	1015.145	0.014469	0.159937	0.311519	0.354643	0.966073	0.009619	0.175259	0.078	0.0273	0.09996	0
San Bernar	2026	LHDT1	Aggregate	25	Diesel	12033.48	12033.48	0	1.448416	0.038344	0.040077833	647.8283	0.008602	0.102066	0.185187	0.210823	0.502861	0.006139	0.175259	0.078	0.0273	0.063791	0
San Bernar	2026	LHDT1	Aggregate	45	Diesel	29142.34	29142.34	0	1.272964	0.019854	0.020751267	426.7479	0.004535	0.067234	0.097643	0.11116	0.215978	0.004044	0.175259	0.078	0.0273	0.042021	0
San Bernar	2026	LHDT1	Aggregate	50	Diesel	21728.86	21728.86	0	1.280156	0.01815	0.018970449	412.7008	0.004001	0.065021	0.086137	0.098061	0.191436	0.003911	0.175259	0.078	0.0273	0.040638	0
San Bernar	2026	LHDT2	Aggregate	10	Diesel	50.27989	50.27989	0	1.629361	0.063389	0.066255462	1206.192	0.01352	0.190036	0.291078	0.331373	0.888574	0.011429	0.183882	0.091	0.03185	0.118773	0
San Bernar	2026	LHDT2	Aggregate	25	Diesel	5235.037	5235.037	0	1.221892	0.036819	0.038483819	778.0751	0.008355	0.122586	0.179876	0.204777	0.466547	0.007373	0.183882	0.091	0.03185	0.076616	0
San Bernar	2026	LHDT2	Aggregate	45	Diesel	12678.06	12678.06	0	0.985984	0.019168	0.020035081	506.5298	0.004437	0.079804	0.095534	0.108759	0.183212	0.0048	0.183882	0.091	0.03185	0.049877	0
San Bernar	2026	LHDT2	Aggregate	50	Diesel	9452.906	9452.906	0	0.982666	0.017446	0.018234749	487.701	0.003868	0.076837	0.083284	0.094814	0.154917	0.004621	0.183882	0.091	0.03185	0.048023	0
San Bernar	2026	MHDT	Aggregate	10	Diesel	2360.339	2360.339	0	2.235769	0.018177	0.018998679	1967.03	0.004223	0.309906	0.090919	0.103504	0.286167	0.018627	0.216826	0.061496	0.021524	0.193691	0
San Bernar	2026	MHDT	Aggregate	25	Diesel	26941.82	26941.82	0	1.00009	0.006166	0.006445122	1189.979	0.000762	0.187482	0.016413	0.018685	0.100686	0.011268	0.216311	0.049809	0.017433	0.117176	0
San Bernar	2026	MHDT	Aggregate	45	Diesel	61948	61948	0	0.483729	0.00539	0.005634099	969.9508	0.000379	0.152816	0.008149	0.009277	0.048508	0.009185	0.216359	0.041585	0.014555	0.09551	0
San Bernar	2026	MHDT	Aggregate	50	Diesel	48071.64	48071.64	0	0.464863	0.006362	0.006649154	974.7329	0.000384	0.15357	0.008258	0.009401	0.042878	0.00923	0.216425	0.041585	0.014555	0.095981	0

El Camino Project
Appendix H3.1: Emission Rates
SCAQMD Risk Tool- Emissions Calculator

Sheet 1 Cogen Emissions
Sheet 2 Boiler Emissions

TAC Emissions Calculator V3.02

Equipment Details

Input	Units
Hours/Day	24 hrs/day
Days/Week	7 days/wk
Weeks/Year	52 wks/yr
Control Efficiency	0.00 value between 0-1

Refresh

Source Type

Natural Gas Reciprocating Internal Combustion Engines

Source Category on HRA Tool -> Natural Gas Reciprocating Internal Combustion Engines

Lean Burn ICE

Engine Horse Power	2,069 bhp
Equipment with SNCR, SCR, or OTHER	SCR
Engine efficiency (37% default)	0.37 value between 0-1
Fuel rate for nat gas (actual if available)	13,900
HHV-Natural gas	1050 Btu/ft³
Conversion factor to Btu/hr	2544.5 Btu/hr
Fuel rate nat gas (default)	13900 ft³/hr

Pollutant

Control Efficiency
0.9185 value between 0-1
0.9185 value between 0-1

PAHs

VOCs

INSTRUCTIONS to Generate TAC Emissions To Upload Into HRA Tool

Purpose: This tool uses standard default emission factors and TAC speciations for standard types of equipment. If the equipment is not one of the listed source types, please enter the TACs and emission rates directly in the HRA Tool.

1. Select the **Source Type** in Cell B9. (This will generate related input data fields below.)
2. Input operating schedule, control efficiency, and required data for the selected source type. (Fields highlighted in light yellow.)
3. Review "Emissions Output" sheet to verify TACs and emissions.
4. Click Refresh button below, then save file for uploading into the HRA Tool.
5. Select Health Risk Assessments -> Tier II Screening Risk Assessment ->Source Category = Cell B10.

Compound*	CAS #	Toxic NSR Entry										Lean Burn			Rich Burn		
		EF (*)	EF (*)	R1	R2	R1	R2	R1 (Uncontrolled)		R2 (Controlled)		2-Stroke	4-Stroke	4-Stroke	2-Stroke	4-Stroke	4-Stroke
		(lbs/mmbtu)	(lbs/mmcft)	(lbs/hr)	(lbs/hr)	(lbs/yr)	(lbs/yr)	(E-06 lbs/hr)	(E-06 lbs/hr)	(E-06 lbs/hr)	(E-06 lbs/hr)	EF	EF	EF	EF	EF	EF
Benzene	71-43-2	0.0004276	0.449	0.0062411	0.000509	54.52225	4.443563342	6241.1	508.64965			1.98	0.449	1.61			
1,3-Butadiene	106-99-0	0.000259	0.272	0.0037808	0.000308	33.02907	2.691869107	3780.8	308.1352			0.836	0.272	0.676			
Carbon tetrachloride	56-23-5	3.562E-05	0.0374	0.0005199	4.24E-05	4.541497	0.370132002	519.86	42.36859			0.0619	0.0374	0.0181			
Ethylene dibromide {EDB}	106-93-4	4.305E-05	0.0452	0.0006283	5.12E-05	5.488654	0.447325308	628.28	51.20482			0.0749	0.0452	0.0217			
Ethylene dichloride {EDC}	107-06-2	2.295E-05	0.0241	0.000335	2.73E-05	2.926473	0.23850752	334.99	27.301685			0.043	0.0241	0.0115			
Formaldehyde	50-00-0	0.0513333	53.9	0.74921	0.061061	6545.099	533.4255326	7492.10	61060.615			56.3	53.9	20.9			
Methylene chloride {Dichloromethane}	75-09-2	1.943E-05	0.0204	0.0002836	2.31E-05	2.47718	0.201890183	283.56	23.11014			0.15	0.0204	0.042			
Benz[a]anthracene	56-55-3	0	0	0	0	0	0	0	0			0.000343	0	0			
Benzo[a]pyrene	50-32-8	0	0	0	0	0	0	0	0			5.79E-06	0	0			
Benzo[b]fluoranthene	205-99-2	1.61E-07	0.000169	2.349E-06	1.91E-07	0.020522	0.001672522	2.3491	0.19145165			8.68E-06	0.000169	0			
Benzo[k]fluoranthene	207-08-9	0	0	0	0	0	0	0	0			5.79E-06	0	0			
Chrysene	218-01-9	6.733E-07	0.000707	9.827E-06	8.01E-07	0.085851	0.00699688	9.8273	0.80092495			0.000685	0.000707	0			
Indeno[1,2,3-cd]pyrene	193-39-5	0	0	0	0	0	0	0	0			0.0000101	0	0			
Naphthalene	91-20-3	7.229E-05	0.0759	0.001055	8.6E-05	9.216567	0.75115024	1055.01	85.983315			0.09823	0.0759	0.099			
Vinyl chloride	75-01-4	1.448E-05	0.0152	0.0002113	1.72E-05	1.845742	0.15042798	211.28	17.21932			0.0252	0.0152	0.00732			
1,1,2,2-Tetrachloroethane	79-34-5	3.886E-05	0.0408	0.0005671	4.62E-05	4.95436	0.403780366	567.12	46.22028			0.0676	0.0408	0.0258			
1,1,2-Trichloroethane	79-00-5	3.086E-05	0.0324	0.0004504	3.67E-05	3.934345	0.320649114	450.36	36.70434			0.0538	0.0324	0.0156			
Acetaldehyde	75-07-0	0.0081238	8.53	0.118567	0.009663	1035.801	84.41780693	118567	9663.2105			7.92	8.53	2.85			
Acrolein	107-02-8	0.0049905	5.24	0.072836	0.005936	636.2953	51.85806662	72836	5936.134			7.94	5.24	2.68			
Ammonia	7664-41-7	0.0086667	9.1	0.12649	0.010309	1105.017	90.05885616	126490	10308.935			9.1	9.1	9.1			
Chloroform	67-66-3	2.771E-05	0.0291	0.0004045	3.3E-05	3.533625	0.287990408	404.49	32.965935			0.048	0.0291	0.014			
Ethyl benzene	100-41-4	3.857E-05	0.0405	0.000563	4.59E-05	4.917931	0.400811393	562.95	45.880425			0.11	0.0405	0.0253			
Hexane	110-54-3	0.0010762	1.13	0.015707	0.00128	137.2164	11.18313269	15707	1280.1205			0.454	1.13	0			
Methanol	67-56-1	0.0024286	2.55	0.035445	0.002889	309.6475	25.23627288	35445	2888.7675			2.53	2.55	3.12			
Styrene	100-42-5	2.295E-05	0.0241	0.000335	2.73E-05	2.926473	0.23850752	334.99	27.301685			0.0559	0.0241	0.0121			
Toluene	108-88-3	0.0003962	0.416	0.0057824	0.000471	50.51505	4.116976282	5782.4	471.2656			0.982	0.416	0.569			
Xylenes (mixed)	1330-20-7	0.000179	0.188	0.0026132	0.000213	22.82892	1.860556589	2613.2	212.9758			0.273	0.188	0.199			

TAC Emissions Calculator V3.02

Equipment Details

Input	Units
Hours/Day	24 hrs/day
Days/Week	7 days/wk
Weeks/Year	52 wks/yr
Control Efficiency	0.00 value between 0-1

Source Type

Boiler

Source Category on HRA Tool -> Gaseous Fuel Fired (Natural Gas) Boilers

Refresh

INSTRUCTIONS to Generate TAC Emissions To Upload Into HRA Tool

Purpose: This tool uses standard default emission factors and TAC speciations for standard types of equipment. If the equipment is not one of the listed source types, please enter the TACs and emission rates directly in the HRA Tool.

1. Select the **Source Type** in Cell B9. (This will generate related input data fields below.)

2. Input operating schedule, control efficiency, and required data for the selected source type. (Fields highlighted in light yellow.)

3. Review "Emissions Output" sheet to verify TACs and emissions.

4. Click Refresh button below, then save file for uploading into the HRA Tool.

5. Select Health Risk Assessments -> Tier II Screening Risk Assessment ->Source Category = Cell B10.

Boiler											
Max Burner Rating	25	MMBtu/hr	Toxic NSR Entry								
Equipment w/ SNCR, SCR or Other	SNCR		Compound*	CAS #	EF (*)	R1	R2	R1	R2	R1 (Uncontrolled)	R2 (Controlled)
Fuel HHV	1050	Btu/ft³	Acetaldehyde	75-07-0	0.0031	7.31E-05	7.314E-05	0.638919	0.638919	73.13638095	73.13638095
Fuel Rate	2.36E+04	ft³/hr	Acrolein	107-02-8	0.0027	6.37E-05	6.37E-05	0.556478	0.556478	63.69942857	63.69942857
MMCF Fuel Rate	2.36E-02	mmcf/hr	Ammonia	7664-41-7	18	0.424663	0.4246629	3709.855	3709.855	424662.8571	424662.8571
CONTROL	Ammonia EF		Benzene	71-43-2	0.0058	0.000137	0.0001368	1.195398	1.195398	136.8358095	136.8358095
	(lbs/mmcf)		Ethyl benzene	100-41-4	0.0069	0.000163	0.0001628	1.422111	1.422111	162.7874286	162.7874286
	SNCR	18	Formaldehyde	50-00-0	0.0123	0.00029	0.0002902	2.535067	2.535067	290.1862857	290.1862857
	SCR	9.1	Hexane	110-54-3	0.0046	0.000109	0.0001085	0.948074	0.948074	108.5249524	108.5249524
	OTHER	3.2	PAHs, total, w/o individ. components reported [Treated as B(a)P for HRA]	1151	0.0001	2.36E-06	2.359E-06	0.02061	0.02061	2.359238095	2.359238095
			Naphthalene	91-20-3	0.0003	7.08E-06	7.078E-06	0.061831	0.061831	7.077714286	7.077714286
			Toluene	108-88-3	0.0265	0.000625	0.0006252	5.461731	5.461731	625.1980952	625.1980952
			Xylenes (mixed)	1330-20-7	0.0197	0.000465	0.0004648	4.06023	4.06023	464.7699048	464.7699048

Note: Select "OTHER" when there is no control or when the control type is not SNCR or SCR.

Boiler Rating		
<10	10-100	>100
mmbtu/h	mmbtu/h	mmbtu/h
r	r	r
EF	EF	EF
(lbs/mmcf)	(lbs/mmcf)	(lbs/mmcf)
0.0043	0.0031	0.0009
0.0027	0.0027	0.0008
18	18	18
0.008	0.0058	0.0017
0.0095	0.0069	0.002
0.017	0.0123	0.0036
0.0063	0.0046	0.0013
0.0001	0.0001	0.0001
0.0003	0.0003	0.0003
0.0366	0.0265	0.0078
0.0272	0.0197	0.0058

*Data from AB2588 Reporting Procedure - Dec 2014