Appendix A:
Air Quality, Energy, and Greenhouse Gas Supporting Information

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Appendix A: Air Quality Supporting Information and Modeling Results

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Operational Vehicle Trip Generation Rate Adjustments

Trip-Generating CalEEMod Land Use	Size Metric	Size	Default Trip Generation Rates[1]			Adjusted Trip Generation Rates[2] (Based on proportional change to weekday trips)		
			Weekday	Saturday	Sunday	Weekday	Saturday	Sunday
Apartments Mid Rise	Dwelling Unit	173	5.44	4.91	4.09	4.54	4.10	3.41
Strip Mall	1000sqft	8	44.32	42.04	20.43	54.45	51.65	25.10

Notes/Sources:

[1] California Air Pollution Control Officers Association (CAPCOA). 2021. California Emissions Estimator Model (CalEEMod), Version 2020.4.0.

[2] GHD Consultant. 2022. Shiloh Crossing Project Transportation Study. May.

Project Construction Emissions

File Name: Shiloh Crossing Mixed Use Construction - Sonoma-San Francisco County, Annual

Timestamp: Date: 5/12/2022 9:15 AM

Construction Emissions (tons)

Construction Activity	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
on site	0.01330	0.13760	0.00633	0.00582
off site	0.00032	0.00022	0.00000	0.00000
Site Preparation 2023	**0.01362**	**0.13782**	**0.00633**	**0.00582**
on site	0.02570	0.26900	0.01160	0.01070
off site	0.00124	0.03070	0.00022	0.00021
Grading 2023	**0.02694**	**0.29970**	**0.01182**	**0.01091**
on site	0.17300	1.58230	0.07700	0.07240
off site	0.09150	0.34520	0.00268	0.00253
Building Construction 2023	**0.26450**	**1.92750**	**0.07968**	**0.07493**
on site	0.16190	1.47880	0.06750	0.06350
off site	0.08520	0.33610	0.00260	0.00246
Building Construction 2024	**0.24710**	**1.81490**	**0.07010**	**0.06596**
on site	0.01370	0.09530	0.00469	0.00431
off site	0.00049	0.00032	0.00001	0.00001
Paving 2024	**0.01419**	**0.09562**	**0.00470**	**0.00432**
on site	1.52990	0.01220	0.00061	0.00061
off site	0.00145	0.00095	0.00002	0.00002
Architectural Coating 2024	**1.53135**	**0.01315**	**0.00063**	**0.00063**
On Site Total	**1.91750**	**3.57520**	**0.16773**	**0.15734**
Off Site Total	**0.18020**	**0.71349**	**0.00553**	**0.00523**

Note: The application of BAAQMD Dust Control Measures would reduce the generation of fugitive dust emissions and would not affect ROG, NOx, PM10 Exhaust, or PM2.5 Exhaust emission estimates.

Average Daily Construction Emissions

Metric	ROG	NO_X	PM_{10} (Exhaust)	$PM_{2.5}$ (Exhaust)
Total Emissions (tons)	2.10	4.29	0.17	0.16
Total Emissions (lbs)	4,195	8,577	347	325
Average Daily Emissions (lbs/workday)	**8**	**16**	**1**	**1**
Significance Thresholds (lbs/day)	*54*	*54*	*82*	*54*
Exceeds Threshold?	**No**	**No**	**No**	**No**

Construction Phase	Workdays
Site Preparation	10
Grading	30
Building Construction	440
Paving	20
Architectural Coating	20
Net Working Days	**520**

Mitigation Applied	Mitigation Description
MM AIR-1	Dust Control BMPs

Project Operational Emissions

File Name: Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

Timestamp: Date: 6/7/2022 9:16 AM

Emissions Source	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Tons per Year			
Area	1.05	0.02	0.01	0.01
Energy	0.01	0.07	0.01	0.01
Mobile	0.60	0.79	0.98	0.27
Waste	-	-	-	-
Water	-	-	-	-
Total	**1.66**	**0.88**	**0.99**	**0.28**
BAAQMD Significance Thresholds	10	10	15	10
Exceeds Threshold?	**No**	**No**	**No**	**No**
Note: All zeros displayed in the above table represent emission values which are below 0.005 tons per year and have subsequently rounded down. All true zero values are represented with "-".				

Average Daily Operational Emissions (lbs/day)

Emissions/Thresholds	ROG	NO_x	PM_{10} (Total)	$PM_{2.5}$ (Total)
	Pounds per Day			
Total Emissions (tons)	1.66	0.88	0.99	0.28
Total Emissions (lbs)	3,312.00	1,755.80	1,987.10	564.30
Average Daily Emissions (lbs/day)	**9.07**	**4.81**	**5.44**	**1.55**
BAAQMD Significance Thresholds	54	54	82	54
Project Exceeds Threshold?	**No**	**No**	**No**	**No**

Project Construction Emissions

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	$PM_{2.5}$ (Exhaust)
on site	0.00582
off site	0.00000
Site Preparation 2023	**0.00582**
on site	0.01070
off site	0.00021
Grading 2023	**0.01091**
on site	0.07240
off site	0.00253
Building Construction 2023	**0.07493**
on site	0.06350
off site	0.00246
Building Construction 2024	**0.06596**
on site	0.00431
off site	0.00001
Paving 2024	**0.00432**
on site	0.00061
off site	0.00002
Architectural Coating 2024	**0.00063**
On Site Total	**0.15734**
Off Site Total	**0.00523**

Exhaust $PM_{2.5}$ AERMOD Inputs

Construction Hours	**4,160.00**	**(8 hours/day, 520 workdays)**
Elapsed Hours	**17,472.00**	**(24 hours/day, 728 calendar days)**
Variable Factor	**4.20**	
On-Site Emissions	**314.68**	**pounds**
	142,736.33	**grams**
	8.169E+00	**grams/hours**
	2.269E-03	**grams/sec**
Off-Site Emissions	**10.46**	**pounds**
	4,744.57	**grams**
	2.716E-01	**grams/hour**
	7.543E-05	**grams/sec**

Mitigation Applied	**Mitigation Description**
MM AIR-1	BAAQMD Dust Control BMPs.

File Name: Shiloh Crossing Mixed Use Construction - Sonoma-San Francisco County, Annual
Timestamp: Date: 5/12/2022 9:15 AM

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	$PM_{2.5}$ (Exhaust) Emission Rate (g/sec)
Shiloh Road	0.5	71.43%	**5.020E-06**
Hembree Road	0.2	28.57%	**2.008E-06**
Totals	*0.7*	*100.00%*	*7.028E-06*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 1,000 feet of the project site.

Off-Site Emission Adjustment for 1,000-foot Radius of Project Site

Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Site Preparation	10	0	0	7.3	20
Grading	30	0	413	7.3	20
Building Construction	440	55	0	7.3	20
Paving	20	0	0	7.3	20
Architectural Coating	20	0	0	7.3	20
	Totals	**24,200**	**413**		

Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	24,200.00	176,660.00
Hauling Trucks	413	8,260
Total VMT		**184,920**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	24,200.00	16,940.00
Hauling Trucks	413	289
Total VMT		**17,229.10**

Proportion of off-site emissions occuring within 1,000 feet of project site:	**9.3171%**

MITIGATED Project Construction Emissions

Annual Construction Emissions (tons)
(as taken from CalEEMod)

	$PM_{2.5}$ (Exhaust)
on site	0.00031
off site	0.00000
Site Preparation 2023	**0.00031**
on site	0.00073
off site	0.00021
Grading 2023	**0.00094**
on site	0.01020
off site	0.00253
Building Construction 2023	**0.01273**
on site	0.00939
off site	0.00246
Building Construction 2024	**0.01185**
on site	0.00037
off site	0.00001
Paving 2024	**0.00038**
on site	0.00004
off site	0.00002
Architectural Coating 2024	**0.00006**
On Site Total	**0.02104**
Off Site Total	**0.00523**

Exhaust $PM_{2.5}$ AERMOD Inputs

Construction Hours	**4,160.00**	**(8 hours/day, 520 workdays)**
Elapsed Hours	**17,472.00**	**(24 hours/day, 728 calendar days)**
Variable Factor	**4.20**	
On-Site Emissions	**42.08**	**pounds**
	19,087.15	**grams**
	1.092E+00	**grams/hours**
	3.035E-04	**grams/sec**
Off-Site Emissions	**10.46**	**pounds**
	4,744.57	**grams**
	2.716E-01	**grams/hour**
	7.543E-05	**grams/sec**

Mitigation Applied	**Mitigation Description**
MM AIR-1	BAAQMD Dust Control BMPs.

File Name: Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual
Timestamp: Date: 6/2/2022 11:32 AM

Off-Site AERMOD Input Adjustments

Roadway Segment	Length (Miles)	Proportion of Total	$PM_{2.5}$ (Exhaust) Emission Rate (g/sec)
Shiloh Road	0.5	71.43%	**5.020E-06**
Hembree Road	0.2	28.57%	**2.008E-06**
Totals	*0.7*	*100.00%*	*7.028E-06*

Notes:

[1] Conversion factor of 453.592 grams/pound was used to convert daily emissions expressed in pounds to daily emissions expressed in grams.

[2] Off-site emissions used in the AERMOD air dispersion model were reduced to account for the proportion of emissions occurring within 1,000 feet of the project site.

Off-Site Emission Adjustment for 1,000-foot Radius of Project Site

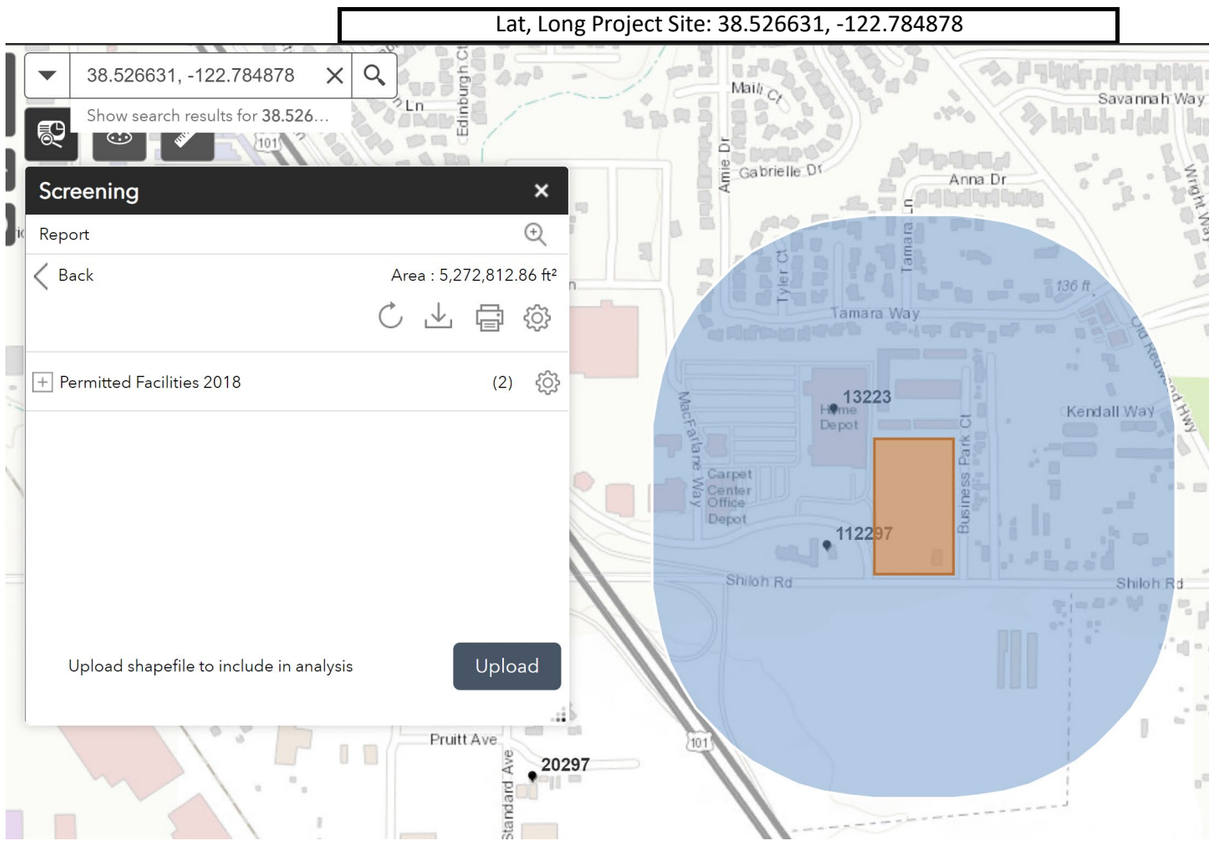
Phase Name	Days	Vendor Trip Number (Daily)	Hauling Trip Number (Total)	Vendor Trip Length	Hauling Trip Length
Site Preparation	10	0	0	7.3	20
Grading	30	0	413	7.3	20
Building Construction	440	55	0	7.3	20
Paving	20	0	0	7.3	20
Architectural Coating	20	0	0	7.3	20
	Totals	**24,200**	**413**		

Diesel-Fueled Vehicle Results		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	24,200.00	176,660.00
Hauling Trucks	413	8,260
Total VMT		**184,920**

AERMOD 1,000-ft Radius Adjustment		
	Total Vehicle Trips	Vehicle Miles Traveled (VMT)
Vendor Trucks	24,200.00	16,940.00
Hauling Trucks	413	289
Total VMT		**17,229.10**

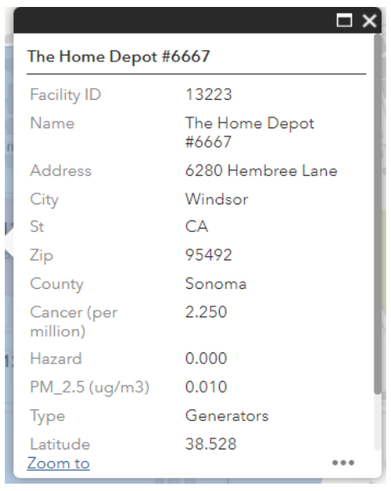
Proportion of off-site emissions occuring within 1,000 feet of project site:	**9.3171%**

Existing Stationary Sources within 1,000 Feet of the Project



Permitted Stationary Sources within 1,000 feet of the Project Site:

1	Facility ID	13223	The Home Depot #6667
2	Facility ID	112297	Hembree Shell



The Home Depot #6667

Facility ID 13223

Distance from MIR: 500 feet

Data provided by BAAQMD:

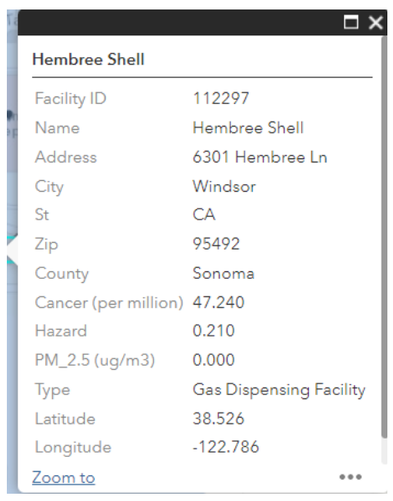
Cancer Risk	2.250
Hazard	0.000
PM2.5 (ug/m3)	0.010
Source Type	Generators

Data adjusted for distance to MIR:

Cancer Risk	0.010
Hazard	<0.001
PM2.5 (ug/m3)	0.001

Diesel Backup Generator

Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
0	0.0	1.000		0		0
5	16.4	1.000		0		0
10	32.8	1.000		0		0
15	49.2	1.000		0		0
20	65.6	1.000		0		0
25	82.0	0.85		0		0
30	98.4	0.73		0		0
140	459.3	0.14		0		0
150	492.1	0.12	2.25	0.27	0.01	0.0012



Hembree Shell

Facility ID 112297

Distance from MIR: 700 feet

Data provided by BAAQMD:

Cancer Risk	47.240
Hazard	0.210
PM2.5 (ug/m3)	0.000
Source Type	Gas Dispensing Facility

Data adjusted for distance to MIR:

Cancer Risk	1.262
Hazard	0.006
PM2.5 (ug/m3)	0.000

Gas Station

Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
5	16.4	1.000		0.0000
10	32.8	1.000		0.0000
15	49.2	1.000		0.0000
20	65.6	1.000		0.0000
25	82.0	0.728		0.0000
30	98.4	0.559		0.0000
200	656.2	0.029		0.0000
205	672.6	0.028		0.0000
210	689.0	0.027	47.24	1.2623
200	656.2	0.029		0.0000
205	672.6	0.028		0.0000
210	689.0	0.027	0.21	0.0056

Shiloh Crossing Project - Residential Cancer Risks (Receptor ID: Res-10)

Unmitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates: 518,828.41 meters easting and 4,264,282.81 meters northing.

Residential - Infant (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Project Construction	0.20014	1.1	361	0.25	350	25550	1	10	2.72	95th Percentile DBR
0 to 2	Project Construction	0.20014	1.1	1090	1.75	350	25550	1	10	57.53	
									Total	**60.25**	

Residential - Child (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3 to 5	Project Construction	0.20014	1.1	631	2.00	350	25550	1	3	11.42	80th Percentile DBR
									Total	**11.42**	

Residential - Adult (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
16 to 18	Project Construction	0.20014	1.1	261	2.00	350	25550	0.73	1	1.15	80th Percentile DBR
									Total	**1.15**	

Maximum Total **60.25**

Shiloh Crossing Project - Residential Cancer Risks (Receptor ID: Res-10)

Mitigated Construction - Cancer Risk Calculations

Residential MIR Coordinates: 518,828.41 meters easting and 4,264,282.81 meters northing.

Residential - Infant (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Project Construction	0.02688	1.1	361	0.25	350	25550	1	10	0.37	95th Percentile DBR
0 to 2	Project Construction	0.02688	1.1	1090	1.75	350	25550	1	10	7.73	
									Total	**8.09**	

Residential - Child (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
3 to 5	Project Construction	0.02688	1.1	631	2.00	350	25550	1	3	1.53	80th Percentile DBR
									Total	**1.53**	

Residential - Adult (AERMOD Receptor ID: Res-10)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (years)	TAH (%)	ASF	Risk (risk/million)	
16 to 18	Project Construction	0.02688	1.1	261	2.00	350	25550	0.73	1	0.15	80th Percentile DBR
									Total	**0.15**	

Maximum Total **8.09**

Shiloh Crossing Project - Park Cancer Risks (Receptor ID: P-184)

<u>Unmitigated</u> Construction - Cancer Risk Calculations

Park MIR Coordinates: 519,107.20 meters easting and 4,264,441.13 meters northing.

Park - Infant (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Project Construction	0.00644	1.1	361	0.25	350	25550	1	10	0.09	95th Percentile DBR
0 to 2	Project Construction	0.00644	1.1	1090	1.75	350	25550	1	10	1.85	
									Total	**1.94**	

Park - Child (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3 to 5	Project Construction	0.00644	1.1	861	2.00	350	25550	1	3	0.50	95th Percentile DBR
									Total	**0.50**	

Park - Adult (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 18	Project Construction	0.00644	1.1	335	2.00	350	25550	1	1	0.07	95th Percentile DBR
									Total	**0.07**	

Maximum Total **1.94**

Shiloh Crossing Project - Park Cancer Risks (Receptor ID: P-184)

Mitigated Construction - Cancer Risk Calculations

Park MIR Coordinates: 519,107.20 meters easting and 4,264,441.13 meters northing.

Park - Infant (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3rd Trimester	Project Construction	0.00088	1.1	361	0.25	350	25550	1	10	0.01	95th Percentile DBR
0 to 2	Project Construction	0.00088	1.1	1090	1.75	350	25550	1	10	0.25	
									Total	**0.26**	

Park - Child (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
3 to 5	Project Construction	0.00088	1.1	861	2.00	350	25550	1	3	0.07	95th Percentile DBR
									Total	**0.07**	

Park - Adult (AERMOD Receptor ID: P-184)

Year	Activity	Annual DPM (ug/m3)	CPF (mg/kg-day)^-1	DBR (l/kg-day)	ED (years)	EF (days)	AT (70 years)	TAH (%)	ASF	Risk (risk/million)	
16 to 18	Project Construction	0.00088	1.1	335	2.00	350	25550	1	1	0.01	95th Percentile DBR
									Total	**0.01**	

Maximum Total **0.26**

BAAQMD Local Roadway Screening Calculator

Bay Area Air Quality Management District

Roadway Screening Analysis Calculator

County specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.

INSTRUCTIONS:

Input the site-specific characteristics of your project by using the drop down menu in the "Search Parameter" box. We recommend that this analysis be used for roadways with 10,000 AADT and above.

• County: Select the County where the project is located. The calculator is only applicable for projects within the nine Bay Area counties.

• Roadway Direction: Select the orientation that best matches the roadway. If the roadway orientation is neither clearly north-south nor east-west, use the highest values predicted from either orientation.

• Side of the Roadway: Identify on which side of the roadway the project is located.

• Distance from Roadway: Enter the distance in feet from the nearest edge of the roadway to the project site. The calculator estimates values for distances greater than 10 feet and less than 1000 feet. For distances greater than 1000 feet, the user can choose to extrapolate values using a distribution curve or apply 1000 feet values for greater distances.

• Annual Average Daily Traffic (ADT): Enter the annual average daily traffic on the roadway. These data may be collected from the city or the county (if the area is unincorporated).

When the user has completed the data entries, the screening level PM2.5 annual average concentration and the cancer risk results will appear in the Results Box on the right. Please note that the roadway tool is not applicable for California State Highways and the District refers the user to the Highway Screening Analysis Tool at: http://www.baaqmd.gov/Divisions/Planning-and-Research/CEQA-GUIDELINES/Tools-and-Methodology.aspx.

Notes and References listed below the Search Boxes

Search Parameters

County	Sonoma
Roadway Direction	East-West
Side of the Roadway	North
Distance from Roadway	10 feet
Annual Average Daily Traffic (ADT)	26,620

Results

Sonoma County

EAST-WEST DIRECTIONAL ROADWAY

PM2.5 annual average

0.617 ($\mu g/m^3$)

Cancer Risk

23.07 (per million)

Data for Sonoma County based on meteorological data collected from Santa Rosa in 2005

Notes and References:

1. Emissions were developed using EMFAC2011 for fleet mix in 2014 assuming 10,000 AADT and includes impacts from diesel and gasoline vehicle exhaust, brake and tire wear, and resuspended dust.
2. Roadways were modeled using CALINE4 air dispersion model assuming a source length of one kilometer. Meteorological data used to estimate the screening values are noted at the bottom of the "Results" box.
3. Cancer risks were estimated for 70 year lifetime exposure starting in 2014 that includes sensitivity values for early life exposures and OEHHA toxicity values adopted in 2013.

Adjustment factor to account for updated OEHHA Guidance: 1.3744

Adjusted Cancer Risk: 31.71

Shiloh Crossing Mixed Use Project —Energy Consumption Summary

Summary of Energy Use During Construction		
Construction vehicle fuel	51,380	gallons (gasoline, diesel)
Construction equipment fuel	59,102	gallons (diesel)
Construction office trailer electricity	24,555	kilowatt hours
Summary of Energy Use During Proposed Operations		(Annually)
Operational vehicle fuel consumption	91,384	gallons (gasoline, diesel)
Operational natural gas consumption	1,557,878	kilo-British Thermal Units
Operational electricity consumption	839,227	kilowatt hours

Construction Vehicle Fuel Calculations

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed April 4, 2022

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Sonoma (SF)
Calendar Year: 2023
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

							Calculations	
VehClass	MdlYr	Speed	Fuel	Population	VMT (mi/day)	Consumption (1000 gallons/day)	FE (mi/gallon)	VMT*FE
HHDT	Aggregated	Aggregated	GAS	4.163157715	431.956456	0.100755842	4.2871604	1851.8666
HHDT	Aggregated	Aggregated	DSL	1767.423323	171374.818	26.29709581	6.5168724	1116827.8
LDA	Aggregated	Aggregated	GAS	146310.8166	5333720.28	162.2738845	32.8686301	175312079
LDA	Aggregated	Aggregated	DSL	2035.819132	71077.8118	1.457563247	48.7648216	3466096.8
LDT1	Aggregated	Aggregated	GAS	16606.49932	526246.525	19.15344319	27.4752962	14458779
LDT1	Aggregated	Aggregated	DSL	19.34208393	277.786587	0.011582519	23.9832617	6662.2284
LDT2	Aggregated	Aggregated	GAS	49635.05634	1644881.87	63.90805834	25.7382544	42336388
LDT2	Aggregated	Aggregated	DSL	318.8039938	12095.0193	0.329184879	36.7423295	444399.19
LHDT1	Aggregated	Aggregated	GAS	4721.568697	153826.686	18.38232637	8.36818379	1287250
LHDT1	Aggregated	Aggregated	DSL	5607.658196	184422.378	10.38622041	17.7564475	3274686.3
LHDT2	Aggregated	Aggregated	GAS	740.6650958	24614.5424	3.374399943	7.29449468	179550.65
LHDT2	Aggregated	Aggregated	DSL	1787.877407	62092.2422	3.902510158	15.910847	987940.17
MHDT	Aggregated	Aggregated	GAS	375.7573823	17661.4721	3.613089022	4.88819178	86332.663
MHDT	Aggregated	Aggregated	DSL	3902.979261	255309.434	25.43033969	10.0395605	2563194.5

Worker
Sum of VMT*FE (Column BI) 236024404
Total VMT 7588299.3
Weighted Average FE 31.103729

Vendor
Sum of VMT*FE (Column BI) 9497633.9
Total VMT 869733.53
Weighted Average FE 10.920165

Haul
Sum of VMT*FE (Column BI) 1118679.7
Total VMT 171806.77
Weighted Average FE 6.5112665

Construction Parameters

Source: AQ/GHG Appendix, CalEEMod Output
Shiloh Crossing Mixed Use Construction - Sonoma-San Francisco County, Annual
Date: 5/12/2022 9:15 AM

Construction Schedule

Site Preparation	Site Preparation	1/2/2023	1/13/2023	5	10
Grading	Grading	1/16/2023	2/24/2023	5	30
Building Construction	Building Construction	2/27/2023	11/1/2024	5	440
Paving	Paving	11/4/2024	11/29/2024	5	20
Architectural Coating	Architectural Coating	12/2/2024	12/27/2024	5	20

Construction Trips and VMT

	Trips per Day		Total Trips	Construction Trip Length in Miles				Trips per Phase			VMT per Phase			Fuel Consumption (gallons)		
Phase Name	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Number of Days per Phase	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trips	Vendor Trips	Hauling Trips	Worker Trips	Vendor Trips	Hauling Trips
Site Preparation	18	0	0	10.8	7.3	20	10	180	0	0	1,944	0	0	62.50	0.00	0.00
Grading	15	0	413	10.8	7.3	20	30	450	0	413	4,860	0	8,260	156.25	0.00	1,268.57
Building Construction	218	55	0	10.8	7.3	20	440	95,920	24,200	0	1,035,936	176,660	0	33,305.85	16,177.41	0.00
Paving	15	0	0	10.8	7.3	20	20	300	0	0	3,240	0	0	104.17	0.00	0.00
Architectural Coating	44	0	0	10.8	7.3	20	20	880	0	0	9,504	0	0	305.56	0.00	0.00

Total Project Construction VMT (miles)
1,240,404

Total Project Fuel Consumption (gallons)
51,380

Construction Equipment Fuel Calculation

Source: AQ/GHG Appendix, CalEEMod Output

Shiloh Crossing Mixed Use Construction - Sonoma-San Francisco County, Annual

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Construction Schedule

CalEEMod Run	Phase Type	Start Date	End Date	Num Days Week	Num Days
Preparation	Site Preparation	1/2/2023	1/13/2023	5	10
Grading	Grading	1/16/2023	2/24/2023	5	30
Building Construction	Building Construction	2/27/2023	11/1/2024	5	440
Paving	Paving	11/4/2024	11/29/2024	5	20
Architectural Coating	Architectural Coating	12/2/2024	12/27/2024	5	20

Construction Equipment

Construction Activity	Construction Equipment	Quantity	Hours per Day	Horsepower	Load Factor	Days of Operation	Horsepower-Hours	Fuel Consumption (Gallons)
Site Preparation	Rubber Tired Dozers	3	8	247	0.4	10	23712	1,185.60
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.37	10	11484.8	574.24
Grading	Excavators	1	8	158	0.38	30	14409.6	720.48
Grading	Graders	1	8	187	0.41	30	18400.8	920.04
Grading	Rubber Tired Dozers	1	8	247	0.4	30	23712	1,185.60
Grading	Tractors/Loaders/Backhoes	3	8	97	0.37	30	25840.8	1,292.04
Building Construction	Cranes	1	7	231	0.29	440	206329.2	10,316.46
Building Construction	Forklifts	3	8	89	0.2	440	187968	9,398.40
Building Construction	Generator Sets	1	8	84	0.74	440	218803.2	10,940.16
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.37	440	331623.6	16,581.18
Building Construction	Welders	1	8	46	0.45	440	72864	3,643.20
Paving	Pavers	2	8	130	0.42	20	17472	873.60
Paving	Paving Equipment	2	8	132	0.36	20	15206.4	760.32
Paving	Rollers	2	8	80	0.38	20	9728	486.40
Architectural Coating	Air Compressors	1	6	78	0.48	20	4492.8	224.64
						Total Construction Equipment Fuel Consumption (gallons)		**59,102**

Construction Office Electricity Calculation

Source: AQ/GHG Appendix, CalEEMod Output

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

Date: 6/2/2022 5:43 PM

Mitigated

kWh/yr = kilowatt hours per year

Energy by Land Use - Electricity		
Annual	12362.4	kWh/yr
Total Over Construction	**24,555**	**kWh**
Total Construction Schedule		
Start	1/2/2023	
End	12/27/2024	
Total Calendar Days	725	
Years	1.99	

	Electricity Use	
Land Use	kWh/yr	t
General Office Building	12362.4	
Total		

Project Operational Fuel Calculation

California Air Resource Board (ARB). 2021. EMFAC2017 Web Database. Website: https://arb.ca.gov/emfac/2017/. Accessed April 4, 2022

EMFAC2017 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Sonoma (SF)
Calendar Year: 2024
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption. Note 'day' in the unit is operation day.

VMT = Vehicle Miles Traveled
FE = Fuel Economy

Given *Calculations*

VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel Consumption	FE	VMT*FE
HHDT	Aggregated	Aggregated	GAS	4.016965685	409.9705847	0.094766682	4.326104641	1773.575649
HHDT	Aggregated	Aggregated	DSL	1825.945164	177414.3569	26.74571505	6.633374977	1176855.956
LDA	Aggregated	Aggregated	GAS	150387.5641	5437262.858	160.8491417	33.80349314	183798477.7
LDA	Aggregated	Aggregated	DSL	2083.236907	72166.11623	1.441987866	50.0462715	3611645.046
LDT1	Aggregated	Aggregated	GAS	16560.0216	522243.6768	18.50449424	28.22253178	14739038.77
LDT1	Aggregated	Aggregated	DSL	17.34260633	245.7904891	0.010156495	24.20032609	5948.209985
LDT2	Aggregated	Aggregated	GAS	49632.85656	1628851.686	61.20171754	26.61447671	43351035.27
LDT2	Aggregated	Aggregated	DSL	339.9277592	12643.51672	0.334513912	37.79668427	477883.0096
LHDT1	Aggregated	Aggregated	GAS	4558.18608	147493.4541	17.43904681	8.457655729	1247448.857
LHDT1	Aggregated	Aggregated	DSL	5459.00714	176666.737	9.845284161	17.94430045	3170161.008
LHDT2	Aggregated	Aggregated	GAS	723.9815832	23741.46846	3.223486798	7.365151448	174859.5108
LHDT2	Aggregated	Aggregated	DSL	1774.019876	60383.3207	3.754022498	16.08496506	971263.6034
MCY	Aggregated	Aggregated	GAS	8818.880171	53181.23849	1.448591572	36.71237603	1952409.625
MDV	Aggregated	Aggregated	GAS	35358.09275	1111104.977	51.34549177	21.63977671	24044063.6
MDV	Aggregated	Aggregated	DSL	973.5639876	35186.17434	1.254078699	28.05738936	987232.1936
MH	Aggregated	Aggregated	GAS	840.073441	7117.529483	1.454017676	4.895077688	34840.85977
MH	Aggregated	Aggregated	DSL	392.0548696	3277.20756	0.330386576	9.919312104	32507.64462
MHDT	Aggregated	Aggregated	GAS	374.4871945	17685.70352	3.553620711	4.976812372	88018.42808
MHDT	Aggregated	Aggregated	DSL	4088.942	259984.4596	25.53430497	10.18177154	2647102.372
OBUS	Aggregated	Aggregated	GAS	143.8936602	6121.122676	1.264301971	4.841503705	29635.43812
OBUS	Aggregated	Aggregated	DSL	205.6551891	15077.65821	1.774541891	8.496648226	128109.5579
SBUS	Aggregated	Aggregated	GAS	63.05141931	2876.268029	0.304116654	9.457778749	27203.10664
SBUS	Aggregated	Aggregated	DSL	447.6607494	14070.49865	1.717869733	8.190666833	115246.7666
UBUS	Aggregated	Aggregated	GAS	9.480430515	741.6927674	0.179166067	4.139694423	3070.381413
UBUS	Aggregated	Aggregated	DSL	56.03276398	5356.797752	0.767958929	6.975370102	37365.64688

Sum of VMT*FE **282853196.2**
Total VMT **9791304.28**
Weighted Average FE (miles/gallon) **28.8882**

Total VMT
Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual
Date: 6/7/2022 9:16 AM

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	785.42	709.30	589.93	1,942,062	1,942,062
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	435.60	413.20	200.80	697,865	697,865
Total	1,221.02	1,122.50	790.73	2,639,927	2,639,927

	Annual VMT (miles)	Fuel Consumption	
Total VMT	2,639,927	**91,384**	**gallons per year**

Project Operations Natural Gas Use

Source: AQ/GHG Appendix, CalEEMod Output
Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual
Date: 6/7/2022 9:16 AM

kBTU/yr = kilo-British Thermal Units/year

Land Use	Natural Gas Use (kBTU/yr)
Apartments Mid Rise	1,450,030
City Park	0
General Office Building	21,060
Parking Lot	0
Racquet Club	68,068
Recreational Swimming Pool	0
Strip Mall	18,720
Total	**1,557,878 kBTU/yr**

	NaturalGas Use
Land Use	kBTU/yr
Apartments Mid Rise	1.45003e+006
City Park	0
General Office Building	21060
Parking Lot	0
Racquet Club	68068
Recreational Swimming Pool	0
Strip Mall	18720

Project Operations Electricity Use

Source: AQ/GHG Appendix, CalEEMod Output

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

Date: 6/7/2022 9:16 AM

kWh/yr = kilowatt hours per year

Land Use	Electricity Use (kWh/yr)
Apartments Mid Rise	668,892
City Park	0
General Office Building	22,321
Parking Lot	43,834
Racquet Club	21,060
Recreational Swimming Pool	0
Strip Mall	83,120
Total	**839,227 kWh/yr**

	Electricity Use	
Land Use	kWh/yr	t
Apartments Mid Rise	668892	
City Park	0	
General Office Building	22321	
Parking Lot	43833.6	
Racquet Club	21060	
Recreational Swimming Pool	0	
Strip Mall	83120	

Shiloh Crossing Project CalEEMod Notes

Note 1. Land uses and sizes associated with development of the proposed project are drawn from a Request for Information received from the Project Applicant on November 11, 2021, email correspondence with the Project Applicant on March 10, 2022, and May 2, 2022, as well as the following site plan:

- INTEGRATED COMMUNITY DEVELOPMENT, dated 4/27/2022

Land uses utilized in the models represent the following project features:

Land Use Type	Land Use Subtype	Land Use Unit Amount	Land Use Size Metric	Lot Acreage	Land Use (SF)	Notes
Residential	Apartments Mid Rise	173	Dwelling Unit	1.09	203,803	Multi-family dwelling units
Commercial	General Office Building	1.3	1000sqft	0	1,300	Business center, admin office, and entry lobby. Lot acreage contained within residential land use.
Parking	Parking Lot	125.24	1000sqft	2.88	125,239	Parking lots and interior roadways
Recreational	City Park	1.95	Acre	1.95	84,864	Landscaping and courtyards
Recreational	Racquet Club	2.6	1000sqft	0	2,600	Community center and fitness room. Lot acreage contained within residential land use.
Recreational	Recreational Swimming Pool	1.73	1000sqft	0.04	1,728	Pool
Retail	Strip Mall	8	1000sqft	0.18	8,000	Retail stores

Note 2. According to information provided by the Project Applicant, the project is anticipated to be constructed from January 2023 through December 2024. CalEEMod default construction activity dates and durations were adjusted to reflect this information.

Note 3. According to information provided by the Project Applicant, approximately 3,300 cubic yards of soil would be exported during grading activities.

Note 4. According to the Transportation Study prepared for the proposed project, an estimated 1,221 daily weekday vehicle trips would be generated during project operation.[1] As such,

[1] GHD Consultant. 2022. Shiloh Crossing Project Transportation Study. May.

the model was adjusted to ensure that at least 1,221 vehicle trips were generated per weekday, and weekend trip generation rates for the various land uses employed in the model were adjusted to reflect the proportional change experienced for weekday trip generation rate adjustments. Please refer to the Trip Generation Rate Adjustments sheet in this Appendix for more information.

Note 5. The proposed project would be required to comply with BAAQMD District Regulation 6, Rule 3, which prohibits any person or builder from installing a wood-burning device in new building construction. Therefore, no wood-burning hearths are included in the project modeling.

Note 6. BAAQMD *Basic Construction Mitigation Measures Recommended For All Proposed Projects* were applied the model, which would be required under MM AIR-1 to ensure that the proposed project would result in a less-than-significant impact related to fugitive dust emissions during construction. To represent this in the modeling, the model was adjusted to include watering of exposed areas at minimum twice per day and limiting construction vehicle speeds to 15 miles per hour on unpaved roads.

In the mitigated construction model, the application of MM AIR-2 was incorporated which would require the project to utilize construction equipment that meets Tier 4 Final emission control standards for all equipment rated for 50 horsepower or greater.

Note 7. According to information provided by the Project Applicant, the proposed project would include rooftop solar, as required by the 2019 California Building Code (CBC). The Project Applicant estimates that the proposed solar systems will generate 593,000 kWh of electricity per year.

Shiloh Crossing Mixed Use Construction

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.30	1000sqft	0.00	1,300.00	0
Parking Lot	125.24	1000sqft	2.88	125,239.00	0
City Park	1.95	Acre	1.95	84,864.00	0
Racquet Club	2.60	1000sqft	0.00	2,600.00	0
Recreational Swimming Pool	1.73	1000sqft	0.04	1,730.00	0
Apartments Mid Rise	173.00	Dwelling Unit	1.09	203,803.00	495
Strip Mall	8.00	1000sqft	0.18	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT -

Demolition -

Grading - Note 3

Architectural Coating -

Vehicle Trips - Construction Only

Woodstoves - Construction Only

Consumer Products - Construction Only

Area Coating - Construction Only

Landscape Equipment - Construction Only

Energy Use - Construction Only

Water And Wastewater - Construction Only

Solid Waste - Construction Only

Construction Off-road Equipment Mitigation - Note 9

Energy Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	440.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.88	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	5.25	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	7.84	0.00
tblEnergyUse	NT24E	3.70	0.00

tblEnergyUse	NT24E	2.68	0.00
tblEnergyUse	NT24NG	3,155.00	0.00
tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	70.89	0.00
tblEnergyUse	T24E	5.45	0.00
tblEnergyUse	T24E	1.32	0.00
tblEnergyUse	T24E	2.46	0.00
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	16.14	0.00
tblEnergyUse	T24NG	19.51	0.00
tblEnergyUse	T24NG	2.34	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblGrading	MaterialExported	0.00	3,300.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LandUseSquareFeet	125,240.00	125,239.00
tblLandUse	LandUseSquareFeet	84,942.00	84,864.00
tblLandUse	LandUseSquareFeet	173,000.00	203,803.00
tblLandUse	LotAcreage	0.03	0.00
tblLandUse	LotAcreage	0.06	0.00
tblLandUse	LotAcreage	4.55	1.09
tblSolidWaste	SolidWasteGenerationRate	79.58	0.00
tblSolidWaste	SolidWasteGenerationRate	0.17	0.00
tblSolidWaste	SolidWasteGenerationRate	1.21	0.00
tblSolidWaste	SolidWasteGenerationRate	14.82	0.00
tblSolidWaste	SolidWasteGenerationRate	9.86	0.00

tblSolidWaste	SolidWasteGenerationRate	8.40	0.00
tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	14.03	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	11,271,646.43	0.00
tblWater	IndoorWaterUseRate	231,053.87	0.00
tblWater	IndoorWaterUseRate	153,772.17	0.00
tblWater	IndoorWaterUseRate	102,317.64	0.00
tblWater	IndoorWaterUseRate	592,580.17	0.00
tblWater	OutdoorWaterUseRate	7,106,037.97	0.00
tblWater	OutdoorWaterUseRate	2,323,388.63	0.00
tblWater	OutdoorWaterUseRate	141,613.66	0.00
tblWater	OutdoorWaterUseRate	94,247.46	0.00

tblWater	OutdoorWaterUseRate	62,710.81	0.00
tblWater	OutdoorWaterUseRate	363,194.30	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3050	2.3651	2.8534	6.6400e-003	0.4381	0.0978	0.5359	0.1650	0.0917	0.2566	0.0000	597.0801	597.0801	0.0868	0.0250	606.7076
2024	1.7925	1.9236	2.6416	6.0800e-003	0.2321	0.0754	0.3075	0.0627	0.0709	0.1335	0.0000	546.0443	546.0443	0.0742	0.0224	554.5781
Maximum	**1.7925**	**2.3651**	**2.8534**	**6.6400e-003**	**0.4381**	**0.0978**	**0.5359**	**0.1650**	**0.0917**	**0.2566**	**0.0000**	**597.0801**	**597.0801**	**0.0868**	**0.0250**	**606.7076**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3050	2.3651	2.8534	6.6400e-003	0.3255	0.0978	0.4233	0.1089	0.0917	0.2006	0.0000	597.0798	597.0798	0.0868	0.0250	606.7072
2024	1.7925	1.9236	2.6416	6.0800e-003	0.2321	0.0754	0.3075	0.0627	0.0709	0.1335	0.0000	546.0439	546.0439	0.0742	0.0224	554.5778
Maximum	**1.7925**	**2.3651**	**2.8534**	**6.6400e-003**	**0.3255**	**0.0978**	**0.4233**	**0.1089**	**0.0917**	**0.2006**	**0.0000**	**597.0798**	**597.0798**	**0.0868**	**0.0250**	**606.7072**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**16.80**	**0.00**	**13.35**	**24.62**	**0.00**	**14.37**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-2-2023**	**4-1-2023**	0.6856	0.6856
2	**4-2-2023**	**7-1-2023**	0.6442	0.6442
3	**7-2-2023**	**10-1-2023**	0.6514	0.6514
4	**10-2-2023**	**1-1-2024**	0.6600	0.6600
5	**1-2-2024**	**4-1-2024**	0.6144	0.6144
6	**4-2-2024**	**7-1-2024**	0.6059	0.6059
7	**7-2-2024**	**9-30-2024**	0.6059	0.6059
		Highest	0.6856	0.6856

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2023	1/13/2023	5	10	
2	Grading	Grading	1/16/2023	2/24/2023	5	30	
3	Building Construction	Building Construction	2/27/2023	11/1/2024	5	440	

4	Paving	Paving	11/4/2024	11/29/2024	5	20	
5	Architectural Coating	Architectural Coating	12/2/2024	12/27/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.88

Residential Indoor: 412,701; Residential Outdoor: 137,567; Non-Residential Indoor: 19,352; Non-Residential Outdoor: 6,451; Striped Parking Area: 7,514 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	413.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	218.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0983**	**6.3300e-003**	**0.1046**	**0.0505**	**5.8200e-003**	**0.0563**	**0.0000**	**16.7254**	**16.7254**	**5.4100e-003**	**0.0000**	**16.8606**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.4700e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5718	0.5718	2.0000e-005	2.0000e-005	0.5778
Total	**3.2000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5718**	**0.5718**	**2.0000e-005**	**2.0000e-005**	**0.5778**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0442**	**6.3300e-003**	**0.0506**	**0.0227**	**5.8200e-003**	**0.0286**	**0.0000**	**16.7253**	**16.7253**	**5.4100e-003**	**0.0000**	**16.8606**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.4700e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5718	0.5718	2.0000e-005	2.0000e-005	0.5778
Total	**3.2000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5718**	**0.5718**	**2.0000e-005**	**2.0000e-005**	**0.5778**

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1064	0.0000	0.1064	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2690	0.2213	4.4000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	39.0909	39.0909	0.0126	0.0000	39.4070
Total	**0.0257**	**0.2690**	**0.2213**	**4.4000e-004**	**0.1064**	**0.0116**	**0.1181**	**0.0514**	**0.0107**	**0.0621**	**0.0000**	**39.0909**	**39.0909**	**0.0126**	**0.0000**	**39.4070**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0301	6.5400e-003	1.3000e-004	3.4300e-003	2.1000e-004	3.6400e-003	9.4000e-004	2.0000e-004	1.1400e-003	0.0000	12.6010	12.6010	3.6000e-004	1.9900e-003	13.2035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	6.1800e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4295	1.4295	5.0000e-005	5.0000e-005	1.4445
Total	**1.2400e-003**	**0.0307**	**0.0127**	**1.5000e-004**	**5.2000e-003**	**2.2000e-004**	**5.4200e-003**	**1.4100e-003**	**2.1000e-004**	**1.6200e-003**	**0.0000**	**14.0304**	**14.0304**	**4.1000e-004**	**2.0400e-003**	**14.6480**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0479	0.0000	0.0479	0.0231	0.0000	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2690	0.2213	4.4000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	39.0909	39.0909	0.0126	0.0000	39.4069
Total	**0.0257**	**0.2690**	**0.2213**	**4.4000e-004**	**0.0479**	**0.0116**	**0.0595**	**0.0231**	**0.0107**	**0.0338**	**0.0000**	**39.0909**	**39.0909**	**0.0126**	**0.0000**	**39.4069**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0301	6.5400e-003	1.3000e-004	3.4300e-003	2.1000e-004	3.6400e-003	9.4000e-004	2.0000e-004	1.1400e-003	0.0000	12.6010	12.6010	3.6000e-004	1.9900e-003	13.2035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	6.1800e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4295	1.4295	5.0000e-005	5.0000e-005	1.4445
Total	**1.2400e-003**	**0.0307**	**0.0127**	**1.5000e-004**	**5.2000e-003**	**2.2000e-004**	**5.4200e-003**	**1.4100e-003**	**2.1000e-004**	**1.6200e-003**	**0.0000**	**14.0304**	**14.0304**	**4.1000e-004**	**2.0400e-003**	**14.6480**

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1730	1.5823	1.7868	2.9600e-003		0.0770	0.0770		0.0724	0.0724	0.0000	254.9852	254.9852	0.0607	0.0000	256.5017
Total	**0.1730**	**1.5823**	**1.7868**	**2.9600e-003**		**0.0770**	**0.0770**		**0.0724**	**0.0724**	**0.0000**	**254.9852**	**254.9852**	**0.0607**	**0.0000**	**256.5017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.2871	0.0806	1.2300e-003	0.0393	1.5300e-003	0.0408	0.0114	1.4700e-003	0.0128	0.0000	119.3263	119.3263	2.1700e-003	0.0181	124.7604
Worker	0.0849	0.0581	0.6584	1.6600e-003	0.1882	1.1500e-003	0.1893	0.0501	1.0600e-003	0.0512	0.0000	152.3501	152.3501	5.4600e-003	4.9200e-003	153.9522
Total	**0.0915**	**0.3452**	**0.7389**	**2.8900e-003**	**0.2275**	**2.6800e-003**	**0.2302**	**0.0615**	**2.5300e-003**	**0.0640**	**0.0000**	**271.6764**	**271.6764**	**7.6300e-003**	**0.0230**	**278.7126**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1730	1.5823	1.7868	2.9600e-003		0.0770	0.0770		0.0724	0.0724	0.0000	254.9849	254.9849	0.0607	0.0000	256.5013
Total	**0.1730**	**1.5823**	**1.7868**	**2.9600e-003**		**0.0770**	**0.0770**		**0.0724**	**0.0724**	**0.0000**	**254.9849**	**254.9849**	**0.0607**	**0.0000**	**256.5013**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.2871	0.0806	1.2300e-003	0.0393	1.5300e-003	0.0408	0.0114	1.4700e-003	0.0128	0.0000	119.3263	119.3263	2.1700e-003	0.0181	124.7604
Worker	0.0849	0.0581	0.6584	1.6600e-003	0.1882	1.1500e-003	0.1893	0.0501	1.0600e-003	0.0512	0.0000	152.3501	152.3501	5.4600e-003	4.9200e-003	153.9522
Total	**0.0915**	**0.3452**	**0.7389**	**2.8900e-003**	**0.2275**	**2.6800e-003**	**0.2302**	**0.0615**	**2.5300e-003**	**0.0640**	**0.0000**	**271.6764**	**271.6764**	**7.6300e-003**	**0.0230**	**278.7126**

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1619	1.4788	1.7784	2.9600e-003		0.0675	0.0675		0.0635	0.0635	0.0000	255.0340	255.0340	0.0603	0.0000	256.5417
Total	**0.1619**	**1.4788**	**1.7784**	**2.9600e-003**		**0.0675**	**0.0675**		**0.0635**	**0.0635**	**0.0000**	**255.0340**	**255.0340**	**0.0603**	**0.0000**	**256.5417**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.2846	0.0781	1.2100e-003	0.0393	1.5200e-003	0.0408	0.0114	1.4600e-003	0.0128	0.0000	117.3799	117.3799	2.2100e-003	0.0178	122.7268
Worker	0.0789	0.0515	0.6059	1.6100e-003	0.1882	1.0800e-003	0.1893	0.0501	1.0000e-003	0.0511	0.0000	147.4234	147.4234	4.9200e-003	4.5500e-003	148.9008
Total	**0.0852**	**0.3361**	**0.6840**	**2.8200e-003**	**0.2275**	**2.6000e-003**	**0.2301**	**0.0614**	**2.4600e-003**	**0.0639**	**0.0000**	**264.8033**	**264.8033**	**7.1300e-003**	**0.0223**	**271.6276**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1619	1.4788	1.7784	2.9600e-003		0.0675	0.0675		0.0635	0.0635	0.0000	255.0337	255.0337	0.0603	0.0000	256.5414
Total	**0.1619**	**1.4788**	**1.7784**	**2.9600e-003**		**0.0675**	**0.0675**		**0.0635**	**0.0635**	**0.0000**	**255.0337**	**255.0337**	**0.0603**	**0.0000**	**256.5414**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.2846	0.0781	1.2100e-003	0.0393	1.5200e-003	0.0408	0.0114	1.4600e-003	0.0128	0.0000	117.3799	117.3799	2.2100e-003	0.0178	122.7268
Worker	0.0789	0.0515	0.6059	1.6100e-003	0.1882	1.0800e-003	0.1893	0.0501	1.0000e-003	0.0511	0.0000	147.4234	147.4234	4.9200e-003	4.5500e-003	148.9008
Total	**0.0852**	**0.3361**	**0.6840**	**2.8200e-003**	**0.2275**	**2.6000e-003**	**0.2301**	**0.0614**	**2.4600e-003**	**0.0639**	**0.0000**	**264.8033**	**264.8033**	**7.1300e-003**	**0.0223**	**271.6276**

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0137**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.2000e-004	3.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9222	0.9222	3.0000e-005	3.0000e-005	0.9314
Total	**4.9000e-004**	**3.2000e-004**	**3.7900e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9222**	**0.9222**	**3.0000e-005**	**3.0000e-005**	**0.9314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0137**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.2000e-004	3.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9222	0.9222	3.0000e-005	3.0000e-005	0.9314
Total	**4.9000e-004**	**3.2000e-004**	**3.7900e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9222**	**0.9222**	**3.0000e-005**	**3.0000e-005**	**0.9314**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**1.5299**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.5000e-004	0.0111	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7050	2.7050	9.0000e-005	8.0000e-005	2.7321
Total	**1.4500e-003**	**9.5000e-004**	**0.0111**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7050**	**2.7050**	**9.0000e-005**	**8.0000e-005**	**2.7321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**1.5299**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.5000e-004	0.0111	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7050	2.7050	9.0000e-005	8.0000e-005	2.7321
Total	**1.4500e-003**	**9.5000e-004**	**0.0111**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7050**	**2.7050**	**9.0000e-005**	**8.0000e-005**	**2.7321**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
City Park	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
General Office Building	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Parking Lot	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Racquet Club	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Recreational Swimming Pool	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Strip Mall	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Mid Rise	0		0.0000	0.0000	0.0000	0.0000
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use		Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	tons/yr	MT/yr			
Apartments Mid Rise	0		0.0000	0.0000	0.0000	0.0000
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

		Total CO2	CH4	N2O	CO2e
Category	tons/yr	MT/yr			
Mitigated		0.0000	0.0000	0.0000	0.0000

Unmitigated		0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Mid Rise	0 / 0		0.0000	0.0000	0.0000	0.0000
City Park	0 / 0		0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0 / 0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use		Total CO2	CH4	N2O	CO2e
Land Use	Mgal	tons/yr	MT/yr			
Apartments Mid Rise	0 / 0		0.0000	0.0000	0.0000	0.0000
City Park	0 / 0		0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0 / 0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

		Total CO2	CH4	N2O	CO2e
	tons/yr	MT/yr			
Mitigated		0.0000	0.0000	0.0000	0.0000
Unmitigated		0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Mid Rise	0		0.0000	0.0000	0.0000	0.0000
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed		Total CO2	CH4	N2O	CO2e
Land Use	tons	tons/yr	MT/yr			
Apartments Mid Rise	0		0.0000	0.0000	0.0000	0.0000
City Park	0		0.0000	0.0000	0.0000	0.0000
General Office Building	0		0.0000	0.0000	0.0000	0.0000
Parking Lot	0		0.0000	0.0000	0.0000	0.0000
Racquet Club	0		0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0		0.0000	0.0000	0.0000	0.0000
Strip Mall	0		0.0000	0.0000	0.0000	0.0000
Total			**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shiloh Crossing Mixed Use MITIGATED Construction

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.30	1000sqft	0.00	1,300.00	0
Parking Lot	125.24	1000sqft	2.88	125,239.00	0
City Park	1.95	Acre	1.95	84,864.00	0
Racquet Club	2.60	1000sqft	0.00	2,600.00	0
Recreational Swimming Pool	1.73	1000sqft	0.04	1,730.00	0
Apartments Mid Rise	173.00	Dwelling Unit	1.09	203,803.00	495
Strip Mall	8.00	1000sqft	0.18	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Note 2

Trips and VMT -

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Demolition -

Grading - Note 3

Architectural Coating -

Vehicle Trips - Construction Only

Woodstoves - Construction Only

Consumer Products - Construction Only

Area Coating - Construction Only

Landscape Equipment - Construction Only

Energy Use - Construction Only

Water And Wastewater - Construction Only

Solid Waste - Construction Only

Construction Off-road Equipment Mitigation - Note 9

Energy Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	230.00	440.00
tblConsumerProducts	ROG_EF	2.14E-05	0
tblConsumerProducts	ROG_EF_Degreaser	3.542E-07	0
tblConsumerProducts	ROG_EF_PesticidesFertilizers	5.152E-08	0
tblEnergyUse	LightingElect	741.44	0.00
tblEnergyUse	LightingElect	3.88	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	3.08	0.00
tblEnergyUse	LightingElect	5.25	0.00
tblEnergyUse	NT24E	3,054.10	0.00
tblEnergyUse	NT24E	7.84	0.00
tblEnergyUse	NT24E	3.70	0.00
tblEnergyUse	NT24E	2.68	0.00
tblEnergyUse	NT24NG	3,155.00	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblEnergyUse	NT24NG	0.06	0.00
tblEnergyUse	NT24NG	6.67	0.00
tblEnergyUse	T24E	70.89	0.00
tblEnergyUse	T24E	5.45	0.00
tblEnergyUse	T24E	1.32	0.00
tblEnergyUse	T24E	2.46	0.00
tblEnergyUse	T24NG	5,226.68	0.00
tblEnergyUse	T24NG	16.14	0.00
tblEnergyUse	T24NG	19.51	0.00
tblEnergyUse	T24NG	2.34	0.00
tblFireplaces	FireplaceDayYear	11.14	0.00
tblFireplaces	FireplaceHourDay	3.50	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblGrading	MaterialExported	0.00	3,300.00
tblLandscapeEquipment	NumberSummerDays	180	0
tblLandUse	LandUseSquareFeet	125,240.00	125,239.00
tblLandUse	LandUseSquareFeet	84,942.00	84,864.00
tblLandUse	LandUseSquareFeet	173,000.00	203,803.00
tblLandUse	LotAcreage	0.03	0.00
tblLandUse	LotAcreage	0.06	0.00
tblLandUse	LotAcreage	4.55	1.09
tblSolidWaste	SolidWasteGenerationRate	79.58	0.00
tblSolidWaste	SolidWasteGenerationRate	0.17	0.00
tblSolidWaste	SolidWasteGenerationRate	1.21	0.00
tblSolidWaste	SolidWasteGenerationRate	14.82	0.00
tblSolidWaste	SolidWasteGenerationRate	9.86	0.00
tblSolidWaste	SolidWasteGenerationRate	8.40	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	ST_TR	4.91	0.00
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	4.09	0.00
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	5.44	0.00
tblVehicleTrips	WD_TR	0.78	0.00
tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	14.03	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	11,271,646.43	0.00
tblWater	IndoorWaterUseRate	231,053.87	0.00
tblWater	IndoorWaterUseRate	153,772.17	0.00
tblWater	IndoorWaterUseRate	102,317.64	0.00
tblWater	IndoorWaterUseRate	592,580.17	0.00
tblWater	OutdoorWaterUseRate	7,106,037.97	0.00
tblWater	OutdoorWaterUseRate	2,323,388.63	0.00
tblWater	OutdoorWaterUseRate	141,613.66	0.00
tblWater	OutdoorWaterUseRate	94,247.46	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblWater	OutdoorWaterUseRate	62,710.81	0.00
tblWater	OutdoorWaterUseRate	363,194.30	0.00
tblWoodstoves	WoodstoveDayYear	14.12	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.3050	2.3651	2.8534	6.6400e-003	0.4381	0.0978	0.5359	0.1650	0.0917	0.2566	0.0000	597.0801	597.0801	0.0868	0.0250	606.7076
2024	1.7925	1.9236	2.6416	6.0800e-003	0.2321	0.0754	0.3075	0.0627	0.0709	0.1335	0.0000	546.0443	546.0443	0.0742	0.0224	554.5781
Maximum	**1.7925**	**2.3651**	**2.8534**	**6.6400e-003**	**0.4381**	**0.0978**	**0.5359**	**0.1650**	**0.0917**	**0.2566**	**0.0000**	**597.0801**	**597.0801**	**0.0868**	**0.0250**	**606.7076**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

2023	0.1600	0.7014	3.0653	6.6400e-003	0.3255	0.0142	0.3397	0.1089	0.0140	0.1229	0.0000	597.0798	597.0798	0.0868	0.0250	606.7072
2024	1.6792	0.6381	2.8291	6.0800e-003	0.2321	0.0124	0.2445	0.0627	0.0123	0.0750	0.0000	546.0439	546.0439	0.0742	0.0224	554.5778
Maximum	**1.6792**	**0.7014**	**3.0653**	**6.6400e-003**	**0.3255**	**0.0142**	**0.3397**	**0.1089**	**0.0140**	**0.1229**	**0.0000**	**597.0798**	**597.0798**	**0.0868**	**0.0250**	**606.7072**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**12.31**	**68.77**	**-7.27**	**0.00**	**16.80**	**84.64**	**30.73**	**24.62**	**83.83**	**49.29**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.6856	0.1588
2	4-2-2023	7-1-2023	0.6442	0.2292
3	7-2-2023	10-1-2023	0.6514	0.2318
4	10-2-2023	1-1-2024	0.6600	0.2408
5	1-2-2024	4-1-2024	0.6144	0.2314
6	4-2-2024	7-1-2024	0.6059	0.2229
7	7-2-2024	9-30-2024	0.6059	0.2229
		Highest	0.6856	0.2408

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/2/2023	1/13/2023	5	10	
2	Grading	Grading	1/16/2023	2/24/2023	5	30	
3	Building Construction	Building Construction	2/27/2023	11/1/2024	5	440	
4	Paving	Paving	11/4/2024	11/29/2024	5	20	
5	Architectural Coating	Architectural Coating	12/2/2024	12/27/2024	5	20	

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 30

Acres of Paving: 2.88

Residential Indoor: 412,701; Residential Outdoor: 137,567; Non-Residential Indoor: 19,352; Non-Residential Outdoor: 6,451; Striped Parking Area: 7,514

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	413.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	218.00	55.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	44.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2023

Unmitigated Construction On-Site

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0133	0.1376	0.0912	1.9000e-004		6.3300e-003	6.3300e-003		5.8200e-003	5.8200e-003	0.0000	16.7254	16.7254	5.4100e-003	0.0000	16.8606
Total	**0.0133**	**0.1376**	**0.0912**	**1.9000e-004**	**0.0983**	**6.3300e-003**	**0.1046**	**0.0505**	**5.8200e-003**	**0.0563**	**0.0000**	**16.7254**	**16.7254**	**5.4100e-003**	**0.0000**	**16.8606**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.4700e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5718	0.5718	2.0000e-005	2.0000e-005	0.5778
Total	**3.2000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5718**	**0.5718**	**2.0000e-005**	**2.0000e-005**	**0.5778**

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0442	0.0000	0.0442	0.0227	0.0000	0.0227	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0101	0.1043	1.9000e-004		3.1000e-004	3.1000e-004		3.1000e-004	3.1000e-004	0.0000	16.7253	16.7253	5.4100e-003	0.0000	16.8606
Total	**2.3300e-003**	**0.0101**	**0.1043**	**1.9000e-004**	**0.0442**	**3.1000e-004**	**0.0445**	**0.0227**	**3.1000e-004**	**0.0230**	**0.0000**	**16.7253**	**16.7253**	**5.4100e-003**	**0.0000**	**16.8606**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.2000e-004	2.2000e-004	2.4700e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.5718	0.5718	2.0000e-005	2.0000e-005	0.5778
Total	**3.2000e-004**	**2.2000e-004**	**2.4700e-003**	**1.0000e-005**	**7.1000e-004**	**0.0000**	**7.1000e-004**	**1.9000e-004**	**0.0000**	**1.9000e-004**	**0.0000**	**0.5718**	**0.5718**	**2.0000e-005**	**2.0000e-005**	**0.5778**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1064	0.0000	0.1064	0.0514	0.0000	0.0514	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0257	0.2690	0.2213	4.4000e-004		0.0116	0.0116		0.0107	0.0107	0.0000	39.0909	39.0909	0.0126	0.0000	39.4070
Total	**0.0257**	**0.2690**	**0.2213**	**4.4000e-004**	**0.1064**	**0.0116**	**0.1181**	**0.0514**	**0.0107**	**0.0621**	**0.0000**	**39.0909**	**39.0909**	**0.0126**	**0.0000**	**39.4070**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0301	6.5400e-003	1.3000e-004	3.4300e-003	2.1000e-004	3.6400e-003	9.4000e-004	2.0000e-004	1.1400e-003	0.0000	12.6010	12.6010	3.6000e-004	1.9900e-003	13.2035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	6.1800e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4295	1.4295	5.0000e-005	5.0000e-005	1.4445
Total	**1.2400e-003**	**0.0307**	**0.0127**	**1.5000e-004**	**5.2000e-003**	**2.2000e-004**	**5.4200e-003**	**1.4100e-003**	**2.1000e-004**	**1.6200e-003**	**0.0000**	**14.0304**	**14.0304**	**4.1000e-004**	**2.0400e-003**	**14.6480**

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0479	0.0000	0.0479	0.0231	0.0000	0.0231	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.4500e-003	0.0236	0.2663	4.4000e-004		7.3000e-004	7.3000e-004		7.3000e-004	7.3000e-004	0.0000	39.0909	39.0909	0.0126	0.0000	39.4069
Total	**5.4500e-003**	**0.0236**	**0.2663**	**4.4000e-004**	**0.0479**	**7.3000e-004**	**0.0486**	**0.0231**	**7.3000e-004**	**0.0239**	**0.0000**	**39.0909**	**39.0909**	**0.0126**	**0.0000**	**39.4069**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.4000e-004	0.0301	6.5400e-003	1.3000e-004	3.4300e-003	2.1000e-004	3.6400e-003	9.4000e-004	2.0000e-004	1.1400e-003	0.0000	12.6010	12.6010	3.6000e-004	1.9900e-003	13.2035
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	5.5000e-004	6.1800e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.4295	1.4295	5.0000e-005	5.0000e-005	1.4445
Total	**1.2400e-003**	**0.0307**	**0.0127**	**1.5000e-004**	**5.2000e-003**	**2.2000e-004**	**5.4200e-003**	**1.4100e-003**	**2.1000e-004**	**1.6200e-003**	**0.0000**	**14.0304**	**14.0304**	**4.1000e-004**	**2.0400e-003**	**14.6480**

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1730	1.5823	1.7868	2.9600e-003		0.0770	0.0770		0.0724	0.0724	0.0000	254.9852	254.9852	0.0607	0.0000	256.5017
Total	**0.1730**	**1.5823**	**1.7868**	**2.9600e-003**		**0.0770**	**0.0770**		**0.0724**	**0.0724**	**0.0000**	**254.9852**	**254.9852**	**0.0607**	**0.0000**	**256.5017**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.2871	0.0806	1.2300e-003	0.0393	1.5300e-003	0.0408	0.0114	1.4700e-003	0.0128	0.0000	119.3263	119.3263	2.1700e-003	0.0181	124.7604
Worker	0.0849	0.0581	0.6584	1.6600e-003	0.1882	1.1500e-003	0.1893	0.0501	1.0600e-003	0.0512	0.0000	152.3501	152.3501	5.4600e-003	4.9200e-003	153.9522
Total	**0.0915**	**0.3452**	**0.7389**	**2.8900e-003**	**0.2275**	**2.6800e-003**	**0.2302**	**0.0615**	**2.5300e-003**	**0.0640**	**0.0000**	**271.6764**	**271.6764**	**7.6300e-003**	**0.0230**	**278.7126**

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0592	0.2916	1.9405	2.9600e-003		0.0102	0.0102		0.0102	0.0102	0.0000	254.9849	254.9849	0.0607	0.0000	256.5013
Total	**0.0592**	**0.2916**	**1.9405**	**2.9600e-003**		**0.0102**	**0.0102**		**0.0102**	**0.0102**	**0.0000**	**254.9849**	**254.9849**	**0.0607**	**0.0000**	**256.5013**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.6000e-003	0.2871	0.0806	1.2300e-003	0.0393	1.5300e-003	0.0408	0.0114	1.4700e-003	0.0128	0.0000	119.3263	119.3263	2.1700e-003	0.0181	124.7604
Worker	0.0849	0.0581	0.6584	1.6600e-003	0.1882	1.1500e-003	0.1893	0.0501	1.0600e-003	0.0512	0.0000	152.3501	152.3501	5.4600e-003	4.9200e-003	153.9522
Total	**0.0915**	**0.3452**	**0.7389**	**2.8900e-003**	**0.2275**	**2.6800e-003**	**0.2302**	**0.0615**	**2.5300e-003**	**0.0640**	**0.0000**	**271.6764**	**271.6764**	**7.6300e-003**	**0.0230**	**278.7126**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1619	1.4788	1.7784	2.9600e-003		0.0675	0.0675		0.0635	0.0635	0.0000	255.0340	255.0340	0.0603	0.0000	256.5417
Total	**0.1619**	**1.4788**	**1.7784**	**2.9600e-003**		**0.0675**	**0.0675**		**0.0635**	**0.0635**	**0.0000**	**255.0340**	**255.0340**	**0.0603**	**0.0000**	**256.5417**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.2846	0.0781	1.2100e-003	0.0393	1.5200e-003	0.0408	0.0114	1.4600e-003	0.0128	0.0000	117.3799	117.3799	2.2100e-003	0.0178	122.7268
Worker	0.0789	0.0515	0.6059	1.6100e-003	0.1882	1.0800e-003	0.1893	0.0501	1.0000e-003	0.0511	0.0000	147.4234	147.4234	4.9200e-003	4.5500e-003	148.9008
Total	**0.0852**	**0.3361**	**0.6840**	**2.8200e-003**	**0.2275**	**2.6000e-003**	**0.2301**	**0.0614**	**2.4600e-003**	**0.0639**	**0.0000**	**264.8033**	**264.8033**	**7.1300e-003**	**0.0223**	**271.6276**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0572	0.2873	1.9390	2.9600e-003		9.3900e-003	9.3900e-003		9.3900e-003	9.3900e-003	0.0000	255.0337	255.0337	0.0603	0.0000	256.5414
Total	**0.0572**	**0.2873**	**1.9390**	**2.9600e-003**		**9.3900e-003**	**9.3900e-003**		**9.3900e-003**	**9.3900e-003**	**0.0000**	**255.0337**	**255.0337**	**0.0603**	**0.0000**	**256.5414**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.3000e-003	0.2846	0.0781	1.2100e-003	0.0393	1.5200e-003	0.0408	0.0114	1.4600e-003	0.0128	0.0000	117.3799	117.3799	2.2100e-003	0.0178	122.7268
Worker	0.0789	0.0515	0.6059	1.6100e-003	0.1882	1.0800e-003	0.1893	0.0501	1.0000e-003	0.0511	0.0000	147.4234	147.4234	4.9200e-003	4.5500e-003	148.9008
Total	**0.0852**	**0.3361**	**0.6840**	**2.8200e-003**	**0.2275**	**2.6000e-003**	**0.2301**	**0.0614**	**2.4600e-003**	**0.0639**	**0.0000**	**264.8033**	**264.8033**	**7.1300e-003**	**0.0223**	**271.6276**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.5 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	9.8800e-003	0.0953	0.1463	2.3000e-004		4.6900e-003	4.6900e-003		4.3100e-003	4.3100e-003	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1885
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0137**	**0.0953**	**0.1463**	**2.3000e-004**		**4.6900e-003**	**4.6900e-003**		**4.3100e-003**	**4.3100e-003**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1885**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.2000e-004	3.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9222	0.9222	3.0000e-005	3.0000e-005	0.9314

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**4.9000e-004**	**3.2000e-004**	**3.7900e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9222**	**0.9222**	**3.0000e-005**	**3.0000e-005**	**0.9314**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.8000e-003	0.0122	0.1730	2.3000e-004		3.7000e-004	3.7000e-004		3.7000e-004	3.7000e-004	0.0000	20.0265	20.0265	6.4800e-003	0.0000	20.1884
Paving	3.7700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.5700e-003**	**0.0122**	**0.1730**	**2.3000e-004**		**3.7000e-004**	**3.7000e-004**		**3.7000e-004**	**3.7000e-004**	**0.0000**	**20.0265**	**20.0265**	**6.4800e-003**	**0.0000**	**20.1884**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Worker	4.9000e-004	3.2000e-004	3.7900e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9222	0.9222	3.0000e-005	3.0000e-005	0.9314
Total	**4.9000e-004**	**3.2000e-004**	**3.7900e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1800e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9222**	**0.9222**	**3.0000e-005**	**3.0000e-005**	**0.9314**

3.6 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.8100e-003	0.0122	0.0181	3.0000e-005		6.1000e-004	6.1000e-004		6.1000e-004	6.1000e-004	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5569
Total	**1.5299**	**0.0122**	**0.0181**	**3.0000e-005**		**6.1000e-004**	**6.1000e-004**		**6.1000e-004**	**6.1000e-004**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5569**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.5000e-004	0.0111	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7050	2.7050	9.0000e-005	8.0000e-005	2.7321
Total	**1.4500e-003**	**9.5000e-004**	**0.0111**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7050**	**2.7050**	**9.0000e-005**	**8.0000e-005**	**2.7321**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	1.5281					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-004	1.2900e-003	0.0183	3.0000e-005		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	2.5533	2.5533	1.4000e-004	0.0000	2.5568
Total	**1.5284**	**1.2900e-003**	**0.0183**	**3.0000e-005**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**2.5533**	**2.5533**	**1.4000e-004**	**0.0000**	**2.5568**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	9.5000e-004	0.0111	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7050	2.7050	9.0000e-005	8.0000e-005	2.7321
Total	**1.4500e-003**	**9.5000e-004**	**0.0111**	**3.0000e-005**	**3.4500e-003**	**2.0000e-005**	**3.4700e-003**	**9.2000e-004**	**2.0000e-005**	**9.4000e-004**	**0.0000**	**2.7050**	**2.7050**	**9.0000e-005**	**8.0000e-005**	**2.7321**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Apartments Mid Rise	0.00	0.00	0.00		
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	86	11	3
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Racquet Club	9.50	7.30	7.30	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	9.50	7.30	7.30	33.00	48.00	19.00	52	39	9
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
City Park	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
General Office Building	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Parking Lot	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Racquet Club	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Recreational Swimming Pool	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Strip Mall	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347

5.0 Energy Detail

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Shiloh Crossing Mixed Use MITIGATED Construction - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Strip Mall	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Apartments Mid Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0 / 0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	tons	MT/yr			
Apartments Mid Rise	0	0.0000	0.0000	0.0000	0.0000
City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0	0.0000	0.0000	0.0000	0.0000
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Equipment Type	Number

11.0 Vegetation

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shiloh Crossing Typical Construction Trailer

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	0.72	1000sqft	0.02	720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2023
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 12'x60' single-wide unit (720 sq ft)

Construction Phase -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Architectural Coating -

Vehicle Trips -

Vehicle Emission Factors -

Vehicle Emission Factors -

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Vehicle Emission Factors -

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Area Mitigation -

Fleet Mix -

Table Name	Column Name	Default Value	New Value

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	4.2300e-003	3.2600e-003	4.5300e-003	1.0000e-005	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Maximum	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Mitigated Construction

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	4.2300e-003	3.2600e-003	4.5300e-003	1.0000e-005	0.0000	1.8000e-004	1.8000e-004	0.0000	1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Maximum	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-2-2023	4-1-2023	0.0054	0.0054
		Highest	0.0054	0.0054

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.7663	1.7663	2.0000e-004	3.0000e-005	1.7813

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mobile	3.0100e-003	4.0500e-003	0.0265	5.0000e-005	4.6700e-003	5.0000e-005	4.7100e-003	1.2500e-003	4.0000e-005	1.3000e-003	0.0000	4.4456	4.4456	3.4000e-004	2.5000e-004	4.5284
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**6.2600e-003**	**4.6200e-003**	**0.0270**	**5.0000e-005**	**4.6700e-003**	**9.0000e-005**	**4.7500e-003**	**1.2500e-003**	**8.0000e-005**	**1.3400e-003**	**0.1766**	**6.3013**	**6.4779**	**0.0128**	**3.8000e-004**	**6.9111**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Energy	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	1.7663	1.7663	2.0000e-004	3.0000e-005	1.7813
Mobile	3.0100e-003	4.0500e-003	0.0265	5.0000e-005	4.6700e-003	5.0000e-005	4.7100e-003	1.2500e-003	4.0000e-005	1.3000e-003	0.0000	4.4456	4.4456	3.4000e-004	2.5000e-004	4.5284
Waste						0.0000	0.0000		0.0000	0.0000	0.1360	0.0000	0.1360	8.0400e-003	0.0000	0.3369
Water						0.0000	0.0000		0.0000	0.0000	0.0406	0.0895	0.1301	4.1800e-003	1.0000e-004	0.2645
Total	**6.2600e-003**	**4.6200e-003**	**0.0270**	**5.0000e-005**	**4.6700e-003**	**9.0000e-005**	**4.7500e-003**	**1.2500e-003**	**8.0000e-005**	**1.3400e-003**	**0.1766**	**6.3013**	**6.4779**	**0.0128**	**3.8000e-004**	**6.9111**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	1/2/2023	1/6/2023	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 1,080; Non-Residential Outdoor: 360; Striped Parking Area: 0 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	0.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2023

Unmitigated Construction On-Site

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.7500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-004	3.2600e-003	4.5300e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6393
Total	**4.2300e-003**	**3.2600e-003**	**4.5300e-003**	**1.0000e-005**		**1.8000e-004**	**1.8000e-004**		**1.8000e-004**	**1.8000e-004**	**0.0000**	**0.6383**	**0.6383**	**4.0000e-005**	**0.0000**	**0.6393**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Shiloh Crossing Typical Construction Trailer - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0100e-003	4.0500e-003	0.0265	5.0000e-005	4.6700e-003	5.0000e-005	4.7100e-003	1.2500e-003	4.0000e-005	1.3000e-003	0.0000	4.4456	4.4456	3.4000e-004	2.5000e-004	4.5284
Unmitigated	3.0100e-003	4.0500e-003	0.0265	5.0000e-005	4.6700e-003	5.0000e-005	4.7100e-003	1.2500e-003	4.0000e-005	1.3000e-003	0.0000	4.4456	4.4456	3.4000e-004	2.5000e-004	4.5284

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	7.01	1.59	0.50	12,686	12,686
Total	7.01	1.59	0.50	12,686	12,686

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

General Office Building	0.527833	0.059888	0.175497	0.130685	0.038148	0.009127	0.014102	0.006456	0.001101	0.000300	0.030749	0.001549	0.004565

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1438	1.1438	1.9000e-004	2.0000e-005	1.1551
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1438	1.1438	1.9000e-004	2.0000e-005	1.1551
NaturalGas Mitigated	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6224	0.6224	1.0000e-005	1.0000e-005	0.6261
NaturalGas Unmitigated	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6224	0.6224	1.0000e-005	1.0000e-005	0.6261

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Land Use	kBTU/yr	tons/yr									MT/yr					
General Office Building	11664	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6224	0.6224	1.0000e-005	1.0000e-005	0.6261
Total		**6.0000e-005**	**5.7000e-004**	**4.8000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.6224**	**0.6224**	**1.0000e-005**	**1.0000e-005**	**0.6261**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	11664	6.0000e-005	5.7000e-004	4.8000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.6224	0.6224	1.0000e-005	1.0000e-005	0.6261
Total		**6.0000e-005**	**5.7000e-004**	**4.8000e-004**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.6224**	**0.6224**	**1.0000e-005**	**1.0000e-005**	**0.6261**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12362.4	1.1438	1.9000e-004	2.0000e-005	1.1551

Total		**1.1438**	**1.9000e-004**	**2.0000e-005**	**1.1551**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12362.4	1.1438	1.9000e-004	2.0000e-005	1.1551
Total		**1.1438**	**1.9000e-004**	**2.0000e-005**	**1.1551**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Unmitigated	3.1900e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.1900e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	3.8000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.8100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.0000e-005	1.0000e-005	0.0000	0.0000	1.0000e-005
Total	**3.1900e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.0000e-005**	**1.0000e-005**	**0.0000**	**0.0000**	**1.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1301	4.1800e-003	1.0000e-004	0.2645
Unmitigated	0.1301	4.1800e-003	1.0000e-004	0.2645

7.2 Water by Land Use

Unmitigated

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.1301	4.1800e-003	1.0000e-004	0.2645
Total		**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.127968 / 0.0784322	0.1301	4.1800e-003	1.0000e-004	0.2645
Total		**0.1301**	**4.1800e-003**	**1.0000e-004**	**0.2645**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1360	8.0400e-003	0.0000	0.3369
Unmitigated	0.1360	8.0400e-003	0.0000	0.3369

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

General Office Building	0.67	0.1360	8.0400e-003	0.0000	0.3369
Total		**0.1360**	**8.0400e-003**	**0.0000**	**0.3369**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Shiloh Crossing Mixed Use Operation

Sonoma-San Francisco County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.30	1000sqft	0.00	1,300.00	0
Parking Lot	125.24	1000sqft	2.88	125,239.00	0
City Park	1.95	Acre	1.95	84,864.00	0
Racquet Club	2.60	1000sqft	0.00	2,600.00	0
Recreational Swimming Pool	1.73	1000sqft	0.04	1,728.00	0
Apartments Mid Rise	173.00	Dwelling Unit	1.09	203,803.00	495
Strip Mall	8.00	1000sqft	0.18	8,000.00	0

1.2 Other Project Characteristics

Urbanization	Rural	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	75
Climate Zone	4			**Operational Year**	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWhr)	203.98	**CH4 Intensity (lb/MWhr)**	0.033	**N2O Intensity (lb/MWhr)**	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Note 1

Construction Phase - Operation only

Off-road Equipment -

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Off-road Equipment - Operation only

Trips and VMT -

On-road Fugitive Dust -

Demolition -

Grading - Note 3

Architectural Coating - Operation only

Vehicle Trips - Note 4

Woodstoves - Note 5

Consumer Products -

Area Coating -

Landscape Equipment -

Energy Use -

Water And Wastewater -

Solid Waste -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Note 7

Fleet Mix -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	6,451.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	19,352.00	0.00
tblArchitecturalCoating	ConstArea_Parking	7,514.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	137,567.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	412,701.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblFireplaces	FireplaceWoodMass	228.80	0.00
tblFireplaces	NumberWood	29.41	0.00
tblLandUse	LandUseSquareFeet	125,240.00	125,239.00

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblLandUse	LandUseSquareFeet	84,942.00	84,864.00
tblLandUse	LandUseSquareFeet	1,730.00	1,728.00
tblLandUse	LandUseSquareFeet	173,000.00	203,803.00
tblLandUse	LotAcreage	0.03	0.00
tblLandUse	LotAcreage	0.06	0.00
tblLandUse	LotAcreage	4.55	1.09
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	40.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	15.00	40.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	45.00	60.00
tblVehicleTrips	ST_TR	4.91	4.10
tblVehicleTrips	ST_TR	1.96	0.00
tblVehicleTrips	ST_TR	2.21	0.00
tblVehicleTrips	ST_TR	21.35	0.00
tblVehicleTrips	ST_TR	9.10	0.00
tblVehicleTrips	ST_TR	42.04	51.65
tblVehicleTrips	SU_TR	4.09	3.41
tblVehicleTrips	SU_TR	2.19	0.00
tblVehicleTrips	SU_TR	0.70	0.00
tblVehicleTrips	SU_TR	17.40	0.00
tblVehicleTrips	SU_TR	13.60	0.00
tblVehicleTrips	SU_TR	20.43	25.10
tblVehicleTrips	WD_TR	5.44	4.54
tblVehicleTrips	WD_TR	0.78	0.00

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

tblVehicleTrips	WD_TR	9.74	0.00
tblVehicleTrips	WD_TR	14.03	0.00
tblVehicleTrips	WD_TR	28.82	0.00
tblVehicleTrips	WD_TR	44.32	54.45
tblWoodstoves	NumberCatalytic	3.46	0.00
tblWoodstoves	NumberNoncatalytic	3.46	0.00
tblWoodstoves	WoodstoveWoodMass	582.40	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Year	tons/yr										MT/yr					
2024	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0471	0.0176	1.2865	9.0000e-005		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	5.3404	5.3404	2.0800e-003	6.0000e-005	5.4101
Energy	8.4000e-003	0.0721	0.0329	4.6000e-004		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	160.7828	160.7828	0.0142	3.0500e-003	162.0446
Mobile	0.6005	0.7882	5.2263	9.7000e-003	0.9711	9.2700e-003	0.9804	0.2603	8.6900e-003	0.2690	0.0000	895.7469	895.7469	0.0672	0.0499	912.2901
Waste						0.0000	0.0000		0.0000	0.0000	23.1491	0.0000	23.1491	1.3681	0.0000	57.3509
Water						0.0000	0.0000		0.0000	0.0000	3.9185	9.4515	13.3701	0.4040	9.6900e-003	26.3572

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Total	**1.6560**	**0.8779**	**6.5457**	**0.0103**	**0.9711**	**0.0224**	**0.9936**	**0.2603**	**0.0218**	**0.2822**	**27.0676**	**1,071.3216**	**1,098.3892**	**1.8555**	**0.0627**	**1,163.4529**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.0471	0.0176	1.2865	9.0000e-005		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	5.3404	5.3404	2.0800e-003	6.0000e-005	5.4101
Energy	8.4000e-003	0.0721	0.0329	4.6000e-004		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	105.9162	105.9162	5.2800e-003	1.9700e-003	106.6355
Mobile	0.6005	0.7882	5.2263	9.7000e-003	0.9711	9.2700e-003	0.9804	0.2603	8.6900e-003	0.2690	0.0000	895.7469	895.7469	0.0672	0.0499	912.2901
Waste						0.0000	0.0000		0.0000	0.0000	23.1491	0.0000	23.1491	1.3681	0.0000	57.3509
Water						0.0000	0.0000		0.0000	0.0000	3.9185	9.4515	13.3701	0.4040	9.6900e-003	26.3572
Total	**1.6560**	**0.8779**	**6.5457**	**0.0103**	**0.9711**	**0.0224**	**0.9936**	**0.2603**	**0.0218**	**0.2822**	**27.0676**	**1,016.4550**	**1,043.5226**	**1.8466**	**0.0616**	**1,108.0438**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**5.12**	**5.00**	**0.48**	**1.72**	**4.76**

3.0 Construction Detail

Construction Phase

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	12/2/2024	12/1/2024	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 2.88

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating –

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	44.00	0.00	0.00	10.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Category	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.6005	0.7882	5.2263	9.7000e-003	0.9711	9.2700e-003	0.9804	0.2603	8.6900e-003	0.2690	0.0000	895.7469	895.7469	0.0672	0.0499	912.2901
Unmitigated	0.6005	0.7882	5.2263	9.7000e-003	0.9711	9.2700e-003	0.9804	0.2603	8.6900e-003	0.2690	0.0000	895.7469	895.7469	0.0672	0.0499	912.2901

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	785.42	709.30	589.93	1,942,062	1,942,062
City Park	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Racquet Club	0.00	0.00	0.00		
Recreational Swimming Pool	0.00	0.00	0.00		
Strip Mall	435.60	413.20	200.80	697,865	697,865
Total	1,221.02	1,122.50	790.73	2,639,927	2,639,927

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Mid Rise	10.80	4.80	5.70	31.00	15.00	54.00	100	0	0
City Park	14.70	6.60	6.60	33.00	48.00	19.00	66	28	6
General Office Building	14.70	6.60	6.60	33.00	48.00	19.00	77	19	4
Parking Lot	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Racquet Club	14.70	6.60	6.60	11.50	69.50	19.00	52	39	9
Recreational Swimming Pool	14.70	6.60	6.60	33.00	48.00	19.00	52	39	9
Strip Mall	14.70	6.60	6.60	16.60	64.40	19.00	60	0	40

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
City Park	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
General Office Building	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Parking Lot	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Racquet Club	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Recreational Swimming Pool	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347
Strip Mall	0.536774	0.058783	0.173424	0.127345	0.036375	0.008877	0.014453	0.006568	0.001093	0.000297	0.030119	0.001546	0.004347

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	22.7819	22.7819	3.6900e-003	4.5000e-004	23.0971

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	0.0000	77.6485	77.6485	0.0126	1.5200e-003	78.4163
NaturalGas Mitigated	8.4000e-003	0.0721	0.0329	4.6000e-004		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	83.1343	83.1343	1.5900e-003	1.5200e-003	83.6284	
NaturalGas Unmitigated	8.4000e-003	0.0721	0.0329	4.6000e-004		5.8000e-003	5.8000e-003		5.8000e-003	5.8000e-003	0.0000	83.1343	83.1343	1.5900e-003	1.5200e-003	83.6284	

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.45003e+006	7.8200e-003	0.0668	0.0284	4.3000e-004		5.4000e-003	5.4000e-003		5.4000e-003	5.4000e-003	0.0000	77.3792	77.3792	1.4800e-003	1.4200e-003	77.8390
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	21060	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1238	1.1238	2.0000e-005	2.0000e-005	1.1305
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	68068	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6324	3.6324	7.0000e-005	7.0000e-005	3.6540
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	18720	1.0000e-004	9.2000e-004	7.7000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9990	0.9990	2.0000e-005	2.0000e-005	1.0049
Total		**8.4000e-003**	**0.0721**	**0.0329**	**4.7000e-004**		**5.8000e-003**	**5.8000e-003**		**5.8000e-003**	**5.8000e-003**	**0.0000**	**83.1343**	**83.1343**	**1.5900e-003**	**1.5300e-003**	**83.6284**

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	1.45003e+006	7.8200e-003	0.0668	0.0284	4.3000e-004		5.4000e-003	5.4000e-003		5.4000e-003	5.4000e-003	0.0000	77.3792	77.3792	1.4800e-003	1.4200e-003	77.8390
City Park	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
General Office Building	21060	1.1000e-004	1.0300e-003	8.7000e-004	1.0000e-005		8.0000e-005	8.0000e-005		8.0000e-005	8.0000e-005	0.0000	1.1238	1.1238	2.0000e-005	2.0000e-005	1.1305
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Racquet Club	68068	3.7000e-004	3.3400e-003	2.8000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.6324	3.6324	7.0000e-005	7.0000e-005	3.6540
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Strip Mall	18720	1.0000e-004	9.2000e-004	7.7000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9990	0.9990	2.0000e-005	2.0000e-005	1.0049
Total		**8.4000e-003**	**0.0721**	**0.0329**	**4.7000e-004**		**5.8000e-003**	**5.8000e-003**		**5.8000e-003**	**5.8000e-003**	**0.0000**	**83.1343**	**83.1343**	**1.5900e-003**	**1.5300e-003**	**83.6284**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	666892	61.8885	0.0100	1.2100e-003	62.5004

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

City Park	0	0.0000	0.0000	0.0000	0.0000
General Office Building	22321	2.0652	3.3000e-004	4.0000e-005	2.0856
Parking Lot	43833.6	4.0557	6.6000e-004	8.0000e-005	4.0958
Racquet Club	21060	1.9486	3.2000e-004	4.0000e-005	1.9678
Recreational Swimming Pool	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	83120	7.6906	1.2400e-003	1.5000e-004	7.7666
Total		**77.6485**	**0.0126**	**1.5200e-003**	**78.4163**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	584178	54.0504	8.7400e-003	1.0600e-003	54.5848
City Park	-84714.3	-7.8381	-0.0013	-0.0002	-7.9156
General Office Building	-62393.3	-5.7729	-0.0009	-0.0001	-5.8300
Parking Lot	-40880.6	-3.7824	-0.0006	-0.0001	-3.8198
Racquet Club	-63654.3	-5.8895	-0.0010	-0.0001	-5.9478
Recreational Swimming Pool	-84714.3	-7.8381	-0.0013	-0.0002	-7.9156

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Strip Mall	-1594.29	-0.1475	0.0000	0.0000	-0.1490
Total		**22.7819**	**3.6900e-003**	**4.6000e-004**	**23.0071**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0471	0.0176	1.2865	9.0000e-005		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	5.3404	5.3404	2.0800e-003	6.0000e-005	5.4101
Unmitigated	1.0471	0.0176	1.2865	9.0000e-005		7.3500e-003	7.3500e-003		7.3500e-003	7.3500e-003	0.0000	5.3404	5.3404	2.0800e-003	6.0000e-005	5.4101

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Architectural Coating	0.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8552					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3000e-004	2.8000e-003	1.1900e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.2396	3.2396	6.0000e-005	6.0000e-005	3.2588
Landscaping	0.0387	0.0148	1.2853	7.0000e-005		7.1200e-003	7.1200e-003		7.1200e-003	7.1200e-003	0.0000	2.1008	2.1008	2.0200e-003	0.0000	2.1513
Total	**1.0471**	**0.0176**	**1.2865**	**9.0000e-005**		**7.3500e-003**	**7.3500e-003**		**7.3500e-003**	**7.3500e-003**	**0.0000**	**5.3404**	**5.3404**	**2.0800e-003**	**6.0000e-005**	**5.4101**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1528					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.8552					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.3000e-004	2.8000e-003	1.1900e-003	2.0000e-005		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	3.2396	3.2396	6.0000e-005	6.0000e-005	3.2588
Landscaping	0.0387	0.0148	1.2853	7.0000e-005		7.1200e-003	7.1200e-003		7.1200e-003	7.1200e-003	0.0000	2.1008	2.1008	2.0200e-003	0.0000	2.1513
Total	**1.0471**	**0.0176**	**1.2865**	**9.0000e-005**		**7.3500e-003**	**7.3500e-003**		**7.3500e-003**	**7.3500e-003**	**0.0000**	**5.3404**	**5.3404**	**2.0800e-003**	**6.0000e-005**	**5.4101**

7.0 Water Detail

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	13.3701	0.4040	9.6900e-003	26.3572
Unmitigated	13.3701	0.4040	9.6900e-003	26.3572

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.2716 / 7.10604	11.5203	0.3686	8.8300e-003	23.3654
City Park	0 / 2.32339	0.7524	1.2000e-004	1.0000e-005	0.7598
General Office Building	0.231054 / 0.141614	0.2348	7.5600e-003	1.8000e-004	0.4776
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.153772 / 0.094277	0.1563	5.0300e-003	1.2000e-004	0.3179

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Recreational Swimming Pool	0.102318 / 0.0627108	0.1040	3.3500e-003	8.0000e-005	0.2115
Strip Mall	0.59258 / 0.363194	0.6023	0.0194	4.6000e-004	1.2250
Total		**13.3701**	**0.4040**	**9.6800e-003**	**26.3572**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	11.2716 / 7.10604	11.5203	0.3686	8.8300e-003	23.3654
City Park	0 / 2.32339	0.7524	1.2000e-004	1.0000e-005	0.7598
General Office Building	0.231054 / 0.141614	0.2348	7.5600e-003	1.8000e-004	0.4776
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Racquet Club	0.153772 / 0.0942475	0.1563	5.0300e-003	1.2000e-004	0.3179
Recreational Swimming Pool	0.102318 / 0.0627108	0.1040	3.3500e-003	8.0000e-005	0.2115
Strip Mall	0.59258 / 0.363194	0.6023	0.0194	4.6000e-004	1.2250
Total		**13.3701**	**0.4040**	**9.6800e-003**	**26.3572**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	23.1491	1.3681	0.0000	57.3509
Unmitigated	23.1491	1.3681	0.0000	57.3509

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	79.58	16.1540	0.9547	0.0000	40.0209
City Park	0.17	0.0345	2.0400e-003	0.0000	0.0855
General Office Building	1.21	0.2456	0.0145	0.0000	0.6085
Parking Lot	0	0.0000	0.0000	0.0000	0.0000

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Racquet Club	14.82	3.0083	0.1778	0.0000	7.4530
Recreational Swimming Pool	9.86	2.0015	0.1183	0.0000	4.9586
Strip Mall	8.4	1.7051	0.1008	0.0000	4.2244
Total		**23.1491**	**1.3681**	**0.0000**	**57.3509**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	79.58	16.1540	0.9547	0.0000	40.0209
City Park	0.17	0.0345	2.0400e-003	0.0000	0.0855
General Office Building	1.21	0.2456	0.0145	0.0000	0.6085
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Racquet Club	14.82	3.0083	0.1778	0.0000	7.4530
Recreational Swimming Pool	9.86	2.0015	0.1183	0.0000	4.9586
Strip Mall	8.4	1.7051	0.1008	0.0000	4.2244
Total		**23.1491**	**1.3681**	**0.0000**	**57.3509**

Shiloh Crossing Mixed Use Operation - Sonoma-San Francisco County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: P.SITE (On-site)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
38.13	3.00	8.97E-8		8	518692.81	4264377.95
		8.97E-8			518817.91	4264378.63
		8.97E-8			518818.80	4264179.85
		8.97E-8			518758.11	4264178.01
		8.97E-8			518740.71	4264180.12
		8.97E-8			518703.93	4264180.59
		8.97E-8			518694.64	4264184.59
		8.97E-8			518688.88	4264191.41

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: HEMBREE (Hembree Rd - Off-site)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	2.01E-6		518678.38	4264181.48	37.30	2.83
			518677.91	4264202.18	37.37	2.83
			518671.55	4264224.88	37.07	2.83
			518655.91	4264243.70	37.01	2.83
			518633.91	4264254.92	36.88	2.83
			518618.44	4264257.85	36.82	2.83
			518592.40	4264259.15	36.68	2.83
			518581.16	4264258.82	36.64	2.83
			518554.63	4264255.40	36.46	2.83
			518521.42	4264245.64	36.30	2.83
			518477.05	4264228.90	36.30	2.83
			518468.05	4264226.02	36.41	2.83
			518447.75	4264225.64	36.38	2.83
			518420.36	4264226.98	36.28	2.83
			518401.59	4264228.70	36.20	2.83

Source Type: LINE VOLUME

Source: SHILOH (Shiloh Rd - Off-site)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
11.00	5.02E-6		518371.53	4264178.30	38.26	2.83
			518493.59	4264173.94	36.86	2.83
			518631.30	4264173.23	36.89	2.83
			518687.51	4264170.42	37.18	2.83
			518729.67	4264169.72	37.40	2.83
			518830.14	4264171.83	37.82	2.83
			519114.26	4264170.66	40.32	2.83

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HEMBREE	L0000211	518678.19	4264189.48	37.32	2.83	9.56E-8	16.00		7.44	2.63
	L0000212	518677.02	4264205.35	37.27	2.83	9.56E-8	16.00		7.44	2.63
	L0000213	518672.71	4264220.76	37.10	2.83	9.56E-8	16.00		7.44	2.63
	L0000214	518664.06	4264233.89	37.04	2.83	9.56E-8	16.00		7.44	2.63
	L0000215	518653.02	4264245.17	36.99	2.83	9.56E-8	16.00		7.44	2.63
	L0000216	518638.76	4264252.44	36.94	2.83	9.56E-8	16.00		7.44	2.63
	L0000217	518623.54	4264256.88	36.84	2.83	9.56E-8	16.00		7.44	2.63
	L0000218	518607.64	4264258.39	36.74	2.83	9.56E-8	16.00		7.44	2.63
	L0000219	518591.66	4264259.13	36.68	2.83	9.56E-8	16.00		7.44	2.63
	L0000220	518575.71	4264258.12	36.59	2.83	9.56E-8	16.00		7.44	2.63
	L0000221	518559.84	4264256.08	36.49	2.83	9.56E-8	16.00		7.44	2.63
	L0000222	518544.32	4264252.37	36.40	2.83	9.56E-8	16.00		7.44	2.63
	L0000223	518528.97	4264247.86	36.29	2.83	9.56E-8	16.00		7.44	2.63
	L0000224	518513.82	4264242.77	36.14	2.83	9.56E-8	16.00		7.44	2.63
	L0000225	518498.85	4264237.12	36.25	2.83	9.56E-8	16.00		7.44	2.63
	L0000226	518483.88	4264231.47	36.33	2.83	9.56E-8	16.00		7.44	2.63
	L0000227	518468.76	4264226.25	36.37	2.83	9.56E-8	16.00		7.44	2.63
	L0000228	518452.80	4264225.73	36.40	2.83	9.56E-8	16.00		7.44	2.63
	L0000229	518436.81	4264226.17	36.37	2.83	9.56E-8	16.00		7.44	2.63
	L0000230	518420.83	4264226.96	36.29	2.83	9.56E-8	16.00		7.44	2.63
	L0000231	518404.90	4264228.40	36.20	2.83	9.56E-8	16.00		7.44	2.63

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000232	518377.03	4264178.11	38.64	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000233	518388.02	4264177.71	38.69	2.83	7.38E-8	11.00		5.12	2.63
	L0000234	518399.02	4264177.32	38.43	2.83	7.38E-8	11.00		5.12	2.63
	L0000235	518410.01	4264176.93	38.10	2.83	7.38E-8	11.00		5.12	2.63
	L0000236	518421.00	4264176.53	37.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000237	518432.00	4264176.14	37.59	2.83	7.38E-8	11.00		5.12	2.63
	L0000238	518442.99	4264175.75	37.37	2.83	7.38E-8	11.00		5.12	2.63
	L0000239	518453.98	4264175.35	37.20	2.83	7.38E-8	11.00		5.12	2.63
	L0000240	518464.97	4264174.96	37.04	2.83	7.38E-8	11.00		5.12	2.63
	L0000241	518475.97	4264174.57	36.96	2.83	7.38E-8	11.00		5.12	2.63
	L0000242	518486.96	4264174.17	36.88	2.83	7.38E-8	11.00		5.12	2.63
	L0000243	518497.96	4264173.91	36.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000244	518508.96	4264173.86	36.66	2.83	7.38E-8	11.00		5.12	2.63
	L0000245	518519.96	4264173.80	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000246	518530.96	4264173.75	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000247	518541.96	4264173.69	36.62	2.83	7.38E-8	11.00		5.12	2.63
	L0000248	518552.96	4264173.63	36.60	2.83	7.38E-8	11.00		5.12	2.63
	L0000249	518563.96	4264173.58	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000250	518574.96	4264173.52	36.75	2.83	7.38E-8	11.00		5.12	2.63
	L0000251	518585.96	4264173.46	36.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000252	518596.96	4264173.41	36.80	2.83	7.38E-8	11.00		5.12	2.63
	L0000253	518607.95	4264173.35	36.78	2.83	7.38E-8	11.00		5.12	2.63
	L0000254	518618.95	4264173.30	36.88	2.83	7.38E-8	11.00		5.12	2.63
	L0000255	518629.95	4264173.24	36.98	2.83	7.38E-8	11.00		5.12	2.63
	L0000256	518640.94	4264172.75	37.02	2.83	7.38E-8	11.00		5.12	2.63
	L0000257	518651.93	4264172.20	37.04	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000258	518662.92	4264171.65	37.10	2.83	7.38E-8	11.00		5.12	2.63
	L0000259	518673.90	4264171.10	37.17	2.83	7.38E-8	11.00		5.12	2.63
	L0000260	518684.89	4264170.55	37.23	2.83	7.38E-8	11.00		5.12	2.63
	L0000261	518695.88	4264170.28	37.29	2.83	7.38E-8	11.00		5.12	2.63
	L0000262	518706.88	4264170.10	37.33	2.83	7.38E-8	11.00		5.12	2.63
	L0000263	518717.88	4264169.92	37.36	2.83	7.38E-8	11.00		5.12	2.63
	L0000264	518728.88	4264169.73	37.39	2.83	7.38E-8	11.00		5.12	2.63
	L0000265	518739.88	4264169.93	37.46	2.83	7.38E-8	11.00		5.12	2.63
	L0000266	518750.87	4264170.16	37.54	2.83	7.38E-8	11.00		5.12	2.63
	L0000267	518761.87	4264170.40	37.56	2.83	7.38E-8	11.00		5.12	2.63
	L0000268	518772.87	4264170.63	37.57	2.83	7.38E-8	11.00		5.12	2.63
	L0000269	518783.87	4264170.86	37.62	2.83	7.38E-8	11.00		5.12	2.63
	L0000270	518794.86	4264171.09	37.70	2.83	7.38E-8	11.00		5.12	2.63
	L0000271	518805.86	4264171.32	37.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000272	518816.86	4264171.55	37.84	2.83	7.38E-8	11.00		5.12	2.63
	L0000273	518827.86	4264171.78	37.91	2.83	7.38E-8	11.00		5.12	2.63
	L0000274	518838.86	4264171.79	37.97	2.83	7.38E-8	11.00		5.12	2.63
	L0000275	518849.86	4264171.75	38.04	2.83	7.38E-8	11.00		5.12	2.63
	L0000276	518860.86	4264171.70	38.12	2.83	7.38E-8	11.00		5.12	2.63
	L0000277	518871.86	4264171.66	38.21	2.83	7.38E-8	11.00		5.12	2.63
	L0000278	518882.86	4264171.61	38.30	2.83	7.38E-8	11.00		5.12	2.63
	L0000279	518893.86	4264171.57	38.39	2.83	7.38E-8	11.00		5.12	2.63
	L0000280	518904.86	4264171.52	38.49	2.83	7.38E-8	11.00		5.12	2.63
	L0000281	518915.86	4264171.48	38.59	2.83	7.38E-8	11.00		5.12	2.63
	L0000282	518926.86	4264171.43	38.69	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000283	518937.86	4264171.39	38.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000284	518948.86	4264171.34	38.86	2.83	7.38E-8	11.00		5.12	2.63
	L0000285	518959.86	4264171.30	38.97	2.83	7.38E-8	11.00		5.12	2.63
	L0000286	518970.86	4264171.25	39.07	2.83	7.38E-8	11.00		5.12	2.63
	L0000287	518981.86	4264171.20	39.19	2.83	7.38E-8	11.00		5.12	2.63
	L0000288	518992.86	4264171.16	39.31	2.83	7.38E-8	11.00		5.12	2.63
	L0000289	519003.85	4264171.11	39.40	2.83	7.38E-8	11.00		5.12	2.63
	L0000290	519014.85	4264171.07	39.47	2.83	7.38E-8	11.00		5.12	2.63
	L0000291	519025.85	4264171.02	39.55	2.83	7.38E-8	11.00		5.12	2.63
	L0000292	519036.85	4264170.98	39.63	2.83	7.38E-8	11.00		5.12	2.63
	L0000293	519047.85	4264170.93	39.72	2.83	7.38E-8	11.00		5.12	2.63
	L0000294	519058.85	4264170.89	39.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000295	519069.85	4264170.84	39.94	2.83	7.38E-8	11.00		5.12	2.63
	L0000296	519080.85	4264170.80	40.06	2.83	7.38E-8	11.00		5.12	2.63
	L0000297	519091.85	4264170.75	40.18	2.83	7.38E-8	11.00		5.12	2.63
	L0000298	519102.85	4264170.71	40.26	2.83	7.38E-8	11.00		5.12	2.63
	L0000299	519113.85	4264170.66	40.34	2.83	7.38E-8	11.00		5.12	2.63

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	519104.86	4264445.48		42.19	1.50
2	519295.67	4264442.65		43.41	1.50
3	519300.19	4264370.40		43.43	1.50
4	519314.86	4264334.83		43.46	1.50
5	519343.09	4264291.36		43.51	1.50
6	519363.41	4264258.62		43.28	1.50
7	519371.88	4264224.75		43.31	1.50
8	519371.88	4264179.02		43.36	1.50
9	519247.69	4264180.15		42.07	1.50
10	519109.75	4264445.41		42.27	1.50
11	519114.65	4264445.34		42.35	1.50
12	519119.54	4264445.26		42.37	1.50
13	519124.43	4264445.19		42.37	1.50
14	519129.32	4264445.12		42.37	1.50
15	519134.22	4264445.05		42.37	1.50
16	519139.11	4264444.97		42.36	1.50
17	519144.00	4264444.90		42.37	1.50
18	519148.89	4264444.83		42.39	1.50
19	519153.79	4264444.75		42.40	1.50
20	519158.68	4264444.68		42.41	1.50
21	519163.57	4264444.61		42.42	1.50
22	519168.46	4264444.54		42.47	1.50
23	519173.36	4264444.46		42.52	1.50
24	519178.25	4264444.39		42.57	1.50
25	519183.14	4264444.32		42.63	1.50
26	519188.03	4264444.25		42.68	1.50
27	519192.93	4264444.17		42.67	1.50
28	519197.82	4264444.10		42.66	1.50
29	519202.71	4264444.03		42.65	1.50
30	519207.60	4264443.96		42.64	1.50

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31	519212.50	4264443.88	42.63	1.50
32	519217.39	4264443.81	42.64	1.50
33	519222.28	4264443.74	42.66	1.50
34	519227.17	4264443.67	42.68	1.50
35	519232.07	4264443.59	42.69	1.50
36	519236.96	4264443.52	42.71	1.50
37	519241.85	4264443.45	42.78	1.50
38	519246.74	4264443.38	42.84	1.50
39	519251.64	4264443.30	42.90	1.50
40	519256.53	4264443.23	42.96	1.50
41	519261.42	4264443.16	43.02	1.50
42	519266.31	4264443.09	43.06	1.50
43	519271.21	4264443.01	43.10	1.50
44	519276.10	4264442.94	43.14	1.50
45	519280.99	4264442.87	43.19	1.50
46	519285.88	4264442.80	43.24	1.50
47	519290.78	4264442.72	43.32	1.50
48	519295.97	4264437.83	43.44	1.50
49	519296.27	4264433.02	43.47	1.50
50	519296.57	4264428.20	43.51	1.50
51	519296.88	4264423.38	43.55	1.50
52	519297.18	4264418.57	43.60	1.50
53	519297.48	4264413.75	43.65	1.50
54	519297.78	4264408.93	43.63	1.50
55	519298.08	4264404.12	43.62	1.50
56	519298.38	4264399.30	43.61	1.50
57	519298.68	4264394.48	43.60	1.50
58	519298.98	4264389.67	43.59	1.50
59	519299.29	4264384.85	43.59	1.50
60	519299.59	4264380.03	43.54	1.50
61	519299.89	4264375.22	43.48	1.50
62	519302.02	4264365.95	43.53	1.50
63	519303.86	4264361.51	43.65	1.50
64	519305.69	4264357.06	43.76	1.50
65	519307.53	4264352.62	43.88	1.50
66	519309.36	4264348.17	43.87	1.50
67	519311.19	4264343.72	43.71	1.50
68	519313.03	4264339.28	43.57	1.50

69	519317.43	4264330.88	43.43	1.50
70	519319.99	4264326.93	43.43	1.50
71	519322.56	4264322.98	43.47	1.50
72	519325.13	4264319.02	43.52	1.50
73	519327.69	4264315.07	43.55	1.50
74	519330.26	4264311.12	43.55	1.50
75	519332.82	4264307.17	43.51	1.50
76	519335.39	4264303.22	43.46	1.50
77	519337.96	4264299.26	43.44	1.50
78	519340.52	4264295.31	43.46	1.50
79	519345.63	4264287.27	43.54	1.50
80	519348.17	4264283.18	43.55	1.50
81	519350.71	4264279.08	43.54	1.50
82	519353.25	4264274.99	43.50	1.50
83	519355.79	4264270.90	43.44	1.50
84	519358.33	4264266.81	43.35	1.50
85	519360.87	4264262.71	43.29	1.50
86	519364.62	4264253.78	43.22	1.50
87	519365.83	4264248.94	43.17	1.50
88	519367.04	4264244.10	43.13	1.50
89	519368.25	4264239.27	43.11	1.50
90	519369.46	4264234.43	43.11	1.50
91	519370.67	4264229.59	43.11	1.50
92	519371.88	4264220.18	43.40	1.50
93	519371.88	4264215.60	43.50	1.50
94	519371.88	4264211.03	43.59	1.50
95	519371.88	4264206.46	43.68	1.50
96	519371.88	4264201.89	43.77	1.50
97	519371.88	4264197.31	43.80	1.50
98	519371.88	4264192.74	43.69	1.50
99	519371.88	4264188.17	43.58	1.50
100	519371.88	4264183.59	43.47	1.50
101	519366.91	4264179.07	43.32	1.50
102	519361.94	4264179.11	43.28	1.50
103	519356.98	4264179.16	43.22	1.50
104	519352.01	4264179.20	43.14	1.50
105	519347.04	4264179.25	43.05	1.50
106	519342.07	4264179.29	42.96	1.50

107	519337.11	4264179.34	42.88	1.50
108	519332.14	4264179.38	42.80	1.50
109	519327.17	4264179.43	42.75	1.50
110	519322.20	4264179.47	42.70	1.50
111	519317.24	4264179.52	42.64	1.50
112	519312.27	4264179.56	42.59	1.50
113	519307.30	4264179.61	42.52	1.50
114	519302.33	4264179.65	42.45	1.50
115	519297.37	4264179.70	42.38	1.50
116	519292.40	4264179.74	42.31	1.50
117	519287.43	4264179.79	42.24	1.50
118	519282.46	4264179.83	42.19	1.50
119	519277.50	4264179.88	42.14	1.50
120	519272.53	4264179.92	42.09	1.50
121	519267.56	4264179.97	42.05	1.50
122	519262.59	4264180.01	42.00	1.50
123	519257.63	4264180.06	42.01	1.50
124	519252.66	4264180.11	42.04	1.50
125	519245.35	4264184.50	42.07	1.50
126	519243.01	4264188.85	42.07	1.50
127	519240.67	4264193.20	42.06	1.50
128	519238.32	4264197.55	42.05	1.50
129	519235.98	4264201.90	42.11	1.50
130	519233.64	4264206.25	42.16	1.50
131	519231.30	4264210.60	42.22	1.50
132	519228.96	4264214.95	42.26	1.50
133	519226.62	4264219.30	42.30	1.50
134	519224.28	4264223.65	42.34	1.50
135	519221.93	4264228.00	42.37	1.50
136	519219.59	4264232.35	42.38	1.50
137	519217.25	4264236.70	42.41	1.50
138	519214.91	4264241.05	42.47	1.50
139	519212.57	4264245.40	42.53	1.50
140	519210.23	4264249.75	42.56	1.50
141	519207.88	4264254.09	42.59	1.50
142	519205.54	4264258.44	42.63	1.50
143	519203.20	4264262.79	42.52	1.50
144	519200.86	4264267.14	42.38	1.50

145	519198.52	4264271.49	42.27	1.50
146	519196.18	4264275.84	42.21	1.50
147	519193.84	4264280.19	42.20	1.50
148	519191.49	4264284.54	42.22	1.50
149	519189.15	4264288.89	42.29	1.50
150	519186.81	4264293.24	42.30	1.50
151	519184.47	4264297.59	42.28	1.50
152	519182.13	4264301.94	42.27	1.50
153	519179.79	4264306.29	42.27	1.50
154	519177.45	4264310.64	42.28	1.50
155	519175.10	4264314.99	42.30	1.50
156	519172.76	4264319.34	42.32	1.50
157	519170.42	4264323.69	42.33	1.50
158	519168.08	4264328.04	42.36	1.50
159	519165.74	4264332.39	42.44	1.50
160	519163.40	4264336.74	42.53	1.50
161	519161.06	4264341.09	42.56	1.50
162	519158.71	4264345.44	42.59	1.50
163	519156.37	4264349.79	42.62	1.50
164	519154.03	4264354.14	42.59	1.50
165	519151.69	4264358.49	42.49	1.50
166	519149.35	4264362.84	42.40	1.50
167	519147.01	4264367.19	42.34	1.50
168	519144.67	4264371.54	42.29	1.50
169	519142.32	4264375.89	42.25	1.50
170	519139.98	4264380.24	42.24	1.50
171	519137.64	4264384.59	42.23	1.50
172	519135.30	4264388.93	42.28	1.50
173	519132.96	4264393.28	42.31	1.50
174	519130.62	4264397.63	42.32	1.50
175	519128.27	4264401.98	42.33	1.50
176	519125.93	4264406.33	42.32	1.50
177	519123.59	4264410.68	42.30	1.50
178	519121.25	4264415.03	42.25	1.50
179	519118.91	4264419.38	42.21	1.50
180	519116.57	4264423.73	42.18	1.50
181	519114.23	4264428.08	42.18	1.50
182	519111.88	4264432.43	42.19	1.50

183	519109.54	4264436.78	42.20	1.50
184	519107.20	4264441.13	42.20	1.50
185	518717.99	4264519.28	38.06	1.50
186	518763.40	4264515.69	38.52	1.50
187	518815.39	4264517.49	39.04	1.50
188	518831.14	4264458.58	39.06	1.50
189	518833.50	4264407.64	39.04	1.50
190	518833.80	4264372.46	38.98	1.50
191	518830.61	4264357.36	38.77	1.50
192	518829.49	4264302.88	38.69	1.50
193	518838.53	4264286.07	38.77	1.50
194	518828.41	4264282.81	38.60	1.50
195	518839.89	4264214.34	38.48	1.50
196	518865.16	4264196.74	38.58	1.50
197	518877.96	4264238.55	38.90	1.50
198	518875.09	4264206.15	38.73	1.50
199	518856.67	4264226.79	38.72	1.50
200	518877.61	4264258.86	38.89	1.50
201	518857.97	4264259.52	38.86	1.50
202	518874.43	4264296.83	39.22	1.50
203	518891.98	4264304.70	39.22	1.50
204	518935.02	4264298.56	39.85	1.50
205	518936.25	4264331.91	39.90	1.50
206	518905.03	4264205.43	38.97	1.50
207	518930.62	4264196.94	39.14	1.50
208	518959.79	4264196.75	39.38	1.50
209	518926.37	4264211.00	39.21	1.50
210	518956.06	4264354.52	40.23	1.50
211	518969.83	4264354.02	40.67	1.50
212	518982.85	4264353.77	40.74	1.50
213	518954.56	4264381.31	40.14	1.50
214	518969.83	4264380.56	40.71	1.50
215	518982.60	4264382.06	40.73	1.50
216	518959.07	4264430.88	40.00	1.50
217	518972.33	4264430.88	40.02	1.50
218	518984.10	4264431.63	40.21	1.50
219	519011.29	4264478.60	40.90	1.50
220	518941.30	4264143.93	38.99	1.50

221	518973.01	4264142.65		39.30	1.50
222	518995.57	4264144.57		39.50	1.50
223	519013.03	4264146.48		39.63	1.50
224	519046.66	4264147.33		39.91	1.50
225	518948.67	4264129.70		39.06	1.50
226	518983.72	4264117.03		39.27	1.50
227	518659.95	4264515.73		37.58	1.50
228	518635.37	4264517.30		37.38	1.50
229	518614.71	4264516.12		37.41	1.50
230	518591.37	4264510.74		37.49	1.50
231	518566.90	4264509.52		37.43	1.50
232	518586.07	4264558.86		37.69	1.50
233	518611.36	4264561.72		37.68	1.50
234	518581.59	4264583.74		37.76	1.50
235	518607.69	4264584.96		37.85	1.50
236	518659.48	4264565.79		37.98	1.50
237	518681.91	4264589.45		38.41	1.50
238	518704.75	4264573.13		38.53	1.50
239	518707.19	4264622.07		38.61	1.50
240	518661.93	4264613.92		37.99	1.50
241	518680.28	4264613.51		38.56	1.50
242	518683.54	4264600.46		38.52	1.50
243	518747.16	4264612.28		38.91	1.50
244	518757.76	4264565.79		38.95	1.50
245	518786.72	4264579.25		39.16	1.50
246	518809.15	4264563.35		39.35	1.50
247	518856.45	4264564.98		39.58	1.50
248	518870.73	4264580.07		39.69	1.50
249	518900.09	4264559.27		39.86	1.50
250	518925.38	4264572.32		40.16	1.50
251	518947.80	4264569.06		40.89	1.50
252	518829.13	4264617.18		39.36	1.50
253	518923.74	4264621.26		40.17	1.50

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\01. Project Files\32490019 Shiloh Crossing\Sonoma County Airport Met Data\724957.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: C:\01. Project Files\32490019 Shiloh Crossing\Sonoma County Airport Met Data\724957.PFL
Format Type: Default AERMET format

Wind Speed

☑ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 36.88 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2009			OAKLAND/WSO AP
Upper Air		2009			

Data Period

Data Period to Process

Start Date: 1/1/2009 Start Hour: 1 End Date: 1/2/2014 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00651	ug/m^3	P-1	519104.86	4264445.48	42.19	1.50	42.19	
PERIOD		0.00271	ug/m^3	P-2	519295.67	4264442.65	43.41	1.50	43.41	
PERIOD		0.00235	ug/m^3	P-3	519300.19	4264370.40	43.43	1.50	43.43	
PERIOD		0.00202	ug/m^3	P-4	519314.86	4264334.83	43.46	1.50	43.46	
PERIOD		0.00160	ug/m^3	P-5	519343.09	4264291.36	43.51	1.50	43.51	
PERIOD		0.00136	ug/m^3	P-6	519363.41	4264258.62	43.28	1.50	43.28	
PERIOD		0.00121	ug/m^3	P-7	519371.88	4264224.75	43.31	1.50	43.31	
PERIOD		0.00110	ug/m^3	P-8	519371.88	4264179.02	43.36	1.50	43.36	
PERIOD		0.00176	ug/m^3	P-9	519247.69	4264180.15	42.07	1.50	42.07	
PERIOD		0.00633	ug/m^3	P-10	519109.75	4264445.41	42.27	1.50	42.27	
PERIOD		0.00601	ug/m^3	P-12	519119.54	4264445.26	42.37	1.50	42.37	
PERIOD		0.00586	ug/m^3	P-13	519124.43	4264445.19	42.37	1.50	42.37	
PERIOD		0.00571	ug/m^3	P-14	519129.32	4264445.12	42.37	1.50	42.37	
PERIOD		0.00544	ug/m^3	P-16	519139.11	4264444.97	42.36	1.50	42.36	
PERIOD		0.00531	ug/m^3	P-17	519144.00	4264444.90	42.37	1.50	42.37	
PERIOD		0.00518	ug/m^3	P-18	519148.89	4264444.83	42.39	1.50	42.39	
PERIOD		0.00506	ug/m^3	P-19	519153.79	4264444.75	42.40	1.50	42.40	
PERIOD		0.00494	ug/m^3	P-20	519158.68	4264444.68	42.41	1.50	42.41	
PERIOD		0.00482	ug/m^3	P-21	519163.57	4264444.61	42.42	1.50	42.42	
PERIOD		0.00471	ug/m^3	P-22	519168.46	4264444.54	42.47	1.50	42.47	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00460	ug/m^3	P-23	519173.36	4264444.46	42.52	1.50	42.52	
PERIOD		0.00449	ug/m^3	P-24	519178.25	4264444.39	42.57	1.50	42.57	
PERIOD		0.00439	ug/m^3	P-25	519183.14	4264444.32	42.63	1.50	42.63	
PERIOD		0.00429	ug/m^3	P-26	519188.03	4264444.25	42.68	1.50	42.68	
PERIOD		0.00420	ug/m^3	P-27	519192.93	4264444.17	42.67	1.50	42.67	
PERIOD		0.00411	ug/m^3	P-28	519197.82	4264444.10	42.66	1.50	42.66	
PERIOD		0.00402	ug/m^3	P-29	519202.71	4264444.03	42.65	1.50	42.65	
PERIOD		0.00393	ug/m^3	P-30	519207.60	4264443.96	42.64	1.50	42.64	
PERIOD		0.00385	ug/m^3	P-31	519212.50	4264443.88	42.63	1.50	42.63	
PERIOD		0.00377	ug/m^3	P-32	519217.39	4264443.81	42.64	1.50	42.64	
PERIOD		0.00369	ug/m^3	P-33	519222.28	4264443.74	42.66	1.50	42.66	
PERIOD		0.00361	ug/m^3	P-34	519227.17	4264443.67	42.68	1.50	42.68	
PERIOD		0.00353	ug/m^3	P-35	519232.07	4264443.59	42.69	1.50	42.69	
PERIOD		0.00346	ug/m^3	P-36	519236.96	4264443.52	42.71	1.50	42.71	
PERIOD		0.00339	ug/m^3	P-37	519241.85	4264443.45	42.78	1.50	42.78	
PERIOD		0.00332	ug/m^3	P-38	519246.74	4264443.38	42.84	1.50	42.84	
PERIOD		0.00325	ug/m^3	P-39	519251.64	4264443.30	42.90	1.50	42.90	
PERIOD		0.00318	ug/m^3	P-40	519256.53	4264443.23	42.96	1.50	42.96	
PERIOD		0.00311	ug/m^3	P-41	519261.42	4264443.16	43.02	1.50	43.02	
PERIOD		0.00299	ug/m^3	P-43	519271.21	4264443.01	43.10	1.50	43.10	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00293	ug/m^3	P-44	519276.10	4264442.94	43.14	1.50	43.14	
PERIOD		0.00287	ug/m^3	P-45	519280.99	4264442.87	43.19	1.50	43.19	
PERIOD		0.00276	ug/m^3	P-47	519290.78	4264442.72	43.32	1.50	43.32	
PERIOD		0.00269	ug/m^3	P-48	519295.97	4264437.83	43.44	1.50	43.44	
PERIOD		0.00267	ug/m^3	P-49	519296.27	4264433.02	43.47	1.50	43.47	
PERIOD		0.00265	ug/m^3	P-50	519296.57	4264428.20	43.51	1.50	43.51	
PERIOD		0.00263	ug/m^3	P-51	519296.88	4264423.38	43.55	1.50	43.55	
PERIOD		0.00261	ug/m^3	P-52	519297.18	4264418.57	43.60	1.50	43.60	
PERIOD		0.00258	ug/m^3	P-53	519297.48	4264413.75	43.65	1.50	43.65	
PERIOD		0.00256	ug/m^3	P-54	519297.78	4264408.93	43.63	1.50	43.63	
PERIOD		0.00254	ug/m^3	P-55	519298.08	4264404.12	43.62	1.50	43.62	
PERIOD		0.00251	ug/m^3	P-56	519298.38	4264399.30	43.61	1.50	43.61	
PERIOD		0.00249	ug/m^3	P-57	519298.68	4264394.48	43.60	1.50	43.60	
PERIOD		0.00246	ug/m^3	P-58	519298.98	4264389.67	43.59	1.50	43.59	
PERIOD		0.00243	ug/m^3	P-59	519299.29	4264384.85	43.59	1.50	43.59	
PERIOD		0.00240	ug/m^3	P-60	519299.59	4264380.03	43.54	1.50	43.54	
PERIOD		0.00238	ug/m^3	P-61	519299.89	4264375.22	43.48	1.50	43.48	
PERIOD		0.00230	ug/m^3	P-62	519302.02	4264365.95	43.53	1.50	43.53	
PERIOD		0.00226	ug/m^3	P-63	519303.86	4264361.51	43.65	1.50	43.65	
PERIOD		0.00221	ug/m^3	P-64	519305.69	4264357.06	43.76	1.50	43.76	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00217	ug/m^3	P-65	519307.53	4264352.62	43.88	1.50	44.09	
PERIOD		0.00213	ug/m^3	P-66	519309.36	4264348.17	43.87	1.50	43.87	
PERIOD		0.00209	ug/m^3	P-67	519311.19	4264343.72	43.71	1.50	43.71	
PERIOD		0.00205	ug/m^3	P-68	519313.03	4264339.28	43.57	1.50	43.57	
PERIOD		0.00197	ug/m^3	P-69	519317.43	4264330.88	43.43	1.50	43.43	
PERIOD		0.00193	ug/m^3	P-70	519319.99	4264326.93	43.43	1.50	43.43	
PERIOD		0.00189	ug/m^3	P-71	519322.56	4264322.97	43.47	1.50	43.47	
PERIOD		0.00185	ug/m^3	P-72	519325.13	4264319.02	43.52	1.50	43.52	
PERIOD		0.00181	ug/m^3	P-73	519327.69	4264315.07	43.55	1.50	43.55	
PERIOD		0.00177	ug/m^3	P-74	519330.26	4264311.12	43.55	1.50	43.55	
PERIOD		0.00174	ug/m^3	P-75	519332.82	4264307.17	43.51	1.50	43.51	
PERIOD		0.00167	ug/m^3	P-77	519337.96	4264299.26	43.44	1.50	43.44	
PERIOD		0.00163	ug/m^3	P-78	519340.52	4264295.31	43.46	1.50	43.46	
PERIOD		0.00156	ug/m^3	P-79	519345.63	4264287.27	43.54	1.50	43.54	
PERIOD		0.00150	ug/m^3	P-81	519350.71	4264279.08	43.54	1.50	43.54	
PERIOD		0.00147	ug/m^3	P-82	519353.25	4264274.99	43.50	1.50	43.50	
PERIOD		0.00144	ug/m^3	P-83	519355.79	4264270.90	43.44	1.50	43.44	
PERIOD		0.00139	ug/m^3	P-85	519360.87	4264262.71	43.29	1.50	43.29	
PERIOD		0.00134	ug/m^3	P-86	519364.62	4264253.78	43.22	1.50	43.22	
PERIOD		0.00131	ug/m^3	P-87	519365.83	4264248.94	43.17	1.50	43.17	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00129	ug/m^3	P-88	519367.04	4264244.10	43.13	1.50	43.13	
PERIOD		0.00127	ug/m^3	P-89	519368.25	4264239.27	43.11	1.50	43.11	
PERIOD		0.00125	ug/m^3	P-90	519369.46	4264234.43	43.11	1.50	43.11	
PERIOD		0.00123	ug/m^3	P-91	519370.67	4264229.59	43.11	1.50	43.11	
PERIOD		0.00120	ug/m^3	P-92	519371.88	4264220.18	43.40	1.50	43.40	
PERIOD		0.00118	ug/m^3	P-93	519371.88	4264215.60	43.50	1.50	43.50	
PERIOD		0.00117	ug/m^3	P-94	519371.88	4264211.03	43.59	1.50	43.59	
PERIOD		0.00115	ug/m^3	P-95	519371.88	4264206.46	43.68	1.50	43.68	
PERIOD		0.00113	ug/m^3	P-97	519371.88	4264197.31	43.80	1.50	43.80	
PERIOD		0.00112	ug/m^3	P-98	519371.88	4264192.74	43.69	1.50	43.69	
PERIOD		0.00111	ug/m^3	P-99	519371.88	4264188.17	43.58	1.50	43.58	
PERIOD		0.00110	ug/m^3	P-100	519371.88	4264183.59	43.47	1.50	43.47	
PERIOD		0.00111	ug/m^3	P-101	519366.91	4264179.07	43.32	1.50	43.32	
PERIOD		0.00113	ug/m^3	P-102	519361.94	4264179.11	43.28	1.50	43.28	
PERIOD		0.00115	ug/m^3	P-103	519356.98	4264179.16	43.22	1.50	43.22	
PERIOD		0.00117	ug/m^3	P-104	519352.01	4264179.20	43.14	1.50	43.14	
PERIOD		0.00119	ug/m^3	P-105	519347.04	4264179.25	43.05	1.50	43.05	
PERIOD		0.00121	ug/m^3	P-106	519342.07	4264179.29	42.96	1.50	42.96	
PERIOD		0.00124	ug/m^3	P-107	519337.11	4264179.34	42.88	1.50	42.88	
PERIOD		0.00126	ug/m^3	P-108	519332.14	4264179.38	42.80	1.50	42.80	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00128	ug/m^3	P-109	519327.17	4264179.43	42.75	1.50	42.75	
PERIOD		0.00131	ug/m^3	P-110	519322.20	4264179.47	42.70	1.50	42.70	
PERIOD		0.00133	ug/m^3	P-111	519317.24	4264179.52	42.64	1.50	42.64	
PERIOD		0.00135	ug/m^3	P-112	519312.27	4264179.56	42.59	1.50	42.59	
PERIOD		0.00138	ug/m^3	P-113	519307.30	4264179.61	42.52	1.50	42.52	
PERIOD		0.00141	ug/m^3	P-114	519302.33	4264179.65	42.45	1.50	42.45	
PERIOD		0.00144	ug/m^3	P-115	519297.37	4264179.70	42.38	1.50	42.38	
PERIOD		0.00146	ug/m^3	P-116	519292.40	4264179.74	42.31	1.50	42.31	
PERIOD		0.00149	ug/m^3	P-117	519287.43	4264179.79	42.24	1.50	42.24	
PERIOD		0.00152	ug/m^3	P-118	519282.46	4264179.83	42.19	1.50	42.19	
PERIOD		0.00155	ug/m^3	P-119	519277.50	4264179.88	42.14	1.50	42.14	
PERIOD		0.00159	ug/m^3	P-120	519272.53	4264179.92	42.09	1.50	42.09	
PERIOD		0.00162	ug/m^3	P-121	519267.56	4264179.97	42.05	1.50	42.05	
PERIOD		0.00165	ug/m^3	P-122	519262.59	4264180.01	42.00	1.50	42.00	
PERIOD		0.00169	ug/m^3	P-123	519257.63	4264180.06	42.01	1.50	42.01	
PERIOD		0.00172	ug/m^3	P-124	519252.66	4264180.11	42.04	1.50	42.04	
PERIOD		0.00179	ug/m^3	P-125	519245.35	4264184.50	42.07	1.50	42.07	
PERIOD		0.00182	ug/m^3	P-126	519243.01	4264188.85	42.07	1.50	42.07	
PERIOD		0.00185	ug/m^3	P-127	519240.67	4264193.20	42.06	1.50	42.06	
PERIOD		0.00188	ug/m^3	P-128	519238.32	4264197.55	42.05	1.50	42.05	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00192	ug/m^3	P-129	519235.98	4264201.90	42.11	1.50	42.11	
PERIOD		0.00196	ug/m^3	P-130	519233.64	4264206.25	42.16	1.50	42.16	
PERIOD		0.00199	ug/m^3	P-131	519231.30	4264210.60	42.22	1.50	42.22	
PERIOD		0.00204	ug/m^3	P-132	519228.96	4264214.95	42.26	1.50	42.26	
PERIOD		0.00208	ug/m^3	P-133	519226.62	4264219.30	42.30	1.50	42.30	
PERIOD		0.00212	ug/m^3	P-134	519224.28	4264223.65	42.34	1.50	42.34	
PERIOD		0.00217	ug/m^3	P-135	519221.93	4264228.00	42.37	1.50	42.37	
PERIOD		0.00222	ug/m^3	P-136	519219.59	4264232.35	42.38	1.50	42.38	
PERIOD		0.00227	ug/m^3	P-137	519217.25	4264236.70	42.41	1.50	42.41	
PERIOD		0.00238	ug/m^3	P-139	519212.57	4264245.39	42.53	1.50	42.53	
PERIOD		0.00244	ug/m^3	P-140	519210.23	4264249.75	42.56	1.50	42.56	
PERIOD		0.00251	ug/m^3	P-141	519207.88	4264254.09	42.59	1.50	42.59	
PERIOD		0.00257	ug/m^3	P-142	519205.54	4264258.44	42.63	1.50	42.63	
PERIOD		0.00264	ug/m^3	P-143	519203.20	4264262.79	42.52	1.50	42.52	
PERIOD		0.00272	ug/m^3	P-144	519200.86	4264267.14	42.38	1.50	42.38	
PERIOD		0.00279	ug/m^3	P-145	519198.52	4264271.49	42.27	1.50	42.27	
PERIOD		0.00287	ug/m^3	P-146	519196.18	4264275.84	42.21	1.50	42.21	
PERIOD		0.00295	ug/m^3	P-147	519193.84	4264280.19	42.20	1.50	42.20	
PERIOD		0.00303	ug/m^3	P-148	519191.49	4264284.54	42.22	1.50	42.22	
PERIOD		0.00311	ug/m^3	P-149	519189.15	4264288.89	42.29	1.50	42.29	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00320	ug/m^3	P-150	519186.81	4264293.24	42.30	1.50	42.30	
PERIOD		0.00328	ug/m^3	P-151	519184.47	4264297.59	42.28	1.50	42.28	
PERIOD		0.00337	ug/m^3	P-152	519182.13	4264301.94	42.27	1.50	42.27	
PERIOD		0.00347	ug/m^3	P-153	519179.79	4264306.29	42.27	1.50	42.27	
PERIOD		0.00356	ug/m^3	P-154	519177.45	4264310.64	42.28	1.50	42.28	
PERIOD		0.00365	ug/m^3	P-155	519175.10	4264314.99	42.30	1.50	42.30	
PERIOD		0.00375	ug/m^3	P-156	519172.76	4264319.34	42.32	1.50	42.32	
PERIOD		0.00385	ug/m^3	P-157	519170.42	4264323.69	42.33	1.50	42.33	
PERIOD		0.00395	ug/m^3	P-158	519168.08	4264328.04	42.36	1.50	42.36	
PERIOD		0.00405	ug/m^3	P-159	519165.74	4264332.39	42.44	1.50	42.44	
PERIOD		0.00415	ug/m^3	P-160	519163.40	4264336.74	42.53	1.50	42.53	
PERIOD		0.00425	ug/m^3	P-161	519161.06	4264341.09	42.56	1.50	42.56	
PERIOD		0.00435	ug/m^3	P-162	519158.71	4264345.44	42.59	1.50	42.59	
PERIOD		0.00446	ug/m^3	P-163	519156.37	4264349.79	42.62	1.50	42.62	
PERIOD		0.00457	ug/m^3	P-164	519154.03	4264354.14	42.59	1.50	42.59	
PERIOD		0.00468	ug/m^3	P-165	519151.69	4264358.49	42.49	1.50	42.49	
PERIOD		0.00479	ug/m^3	P-166	519149.35	4264362.84	42.40	1.50	42.40	
PERIOD		0.00490	ug/m^3	P-167	519147.01	4264367.19	42.34	1.50	42.34	
PERIOD		0.00501	ug/m^3	P-168	519144.67	4264371.54	42.29	1.50	42.29	
PERIOD		0.00522	ug/m^3	P-170	519139.98	4264380.24	42.24	1.50	42.24	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00542	ug/m^3	P-172	519135.30	4264388.93	42.28	1.50	42.28	
PERIOD		0.00552	ug/m^3	P-173	519132.96	4264393.28	42.31	1.50	42.31	
PERIOD		0.00561	ug/m^3	P-174	519130.62	4264397.63	42.32	1.50	42.32	
PERIOD		0.00571	ug/m^3	P-175	519128.27	4264401.98	42.33	1.50	42.33	
PERIOD		0.00580	ug/m^3	P-176	519125.93	4264406.33	42.32	1.50	42.32	
PERIOD		0.00589	ug/m^3	P-177	519123.59	4264410.68	42.30	1.50	42.30	
PERIOD		0.00598	ug/m^3	P-178	519121.25	4264415.03	42.25	1.50	42.25	
PERIOD		0.00607	ug/m^3	P-179	519118.91	4264419.38	42.21	1.50	42.21	
PERIOD		0.00615	ug/m^3	P-180	519116.57	4264423.73	42.18	1.50	42.18	
PERIOD		0.00623	ug/m^3	P-181	519114.23	4264428.08	42.18	1.50	42.18	
PERIOD		0.00630	ug/m^3	P-182	519111.88	4264432.43	42.19	1.50	42.19	
PERIOD		0.00637	ug/m^3	P-183	519109.54	4264436.78	42.20	1.50	42.20	
PERIOD		0.00644	ug/m^3	P-184	519107.20	4264441.13	42.20	1.50	42.20	
PERIOD		0.05204	ug/m^3	Res-1	518717.99	4264519.28	38.06	1.50	38.06	
PERIOD		0.05595	ug/m^3	Res-2	518763.40	4264515.69	38.52	1.50	38.52	
PERIOD		0.04422	ug/m^3	Res-3	518815.39	4264517.49	39.04	1.50	39.04	
PERIOD		0.06452	ug/m^3	Res-4	518831.14	4264458.58	39.06	1.50	39.06	
PERIOD		0.10889	ug/m^3	Res-5	518833.50	4264407.64	39.04	1.50	39.04	
PERIOD		0.14405	ug/m^3	Res-6	518833.80	4264372.46	38.98	1.50	38.98	
PERIOD		0.16893	ug/m^3	Res-7	518830.61	4264357.36	38.77	1.50	38.77	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.19506	ug/m^3	Res-8	518829.49	4264302.88	38.69	1.50	38.69	
PERIOD		0.14295	ug/m^3	Res-9	518838.53	4264286.07	38.77	1.50	38.77	
PERIOD		0.20014	ug/m^3	Res-10	518828.41	4264282.81	38.60	1.50	38.60	
PERIOD		0.10180	ug/m^3	Res-11	518839.89	4264214.34	38.48	1.50	38.48	
PERIOD		0.04755	ug/m^3	Res-12	518865.16	4264196.74	38.58	1.50	38.58	
PERIOD		0.04753	ug/m^3	Res-13	518877.96	4264238.55	38.90	1.50	38.90	
PERIOD		0.04161	ug/m^3	Res-14	518875.09	4264206.15	38.73	1.50	38.73	
PERIOD		0.07093	ug/m^3	Res-15	518856.67	4264226.79	38.72	1.50	38.72	
PERIOD		0.05171	ug/m^3	Res-16	518877.61	4264258.86	38.89	1.50	38.89	
PERIOD		0.07775	ug/m^3	Res-17	518857.97	4264259.52	38.86	1.50	38.86	
PERIOD		0.05794	ug/m^3	Res-18	518874.43	4264296.83	39.22	1.50	39.22	
PERIOD		0.04291	ug/m^3	Res-19	518891.98	4264304.70	39.22	1.50	39.22	
PERIOD		0.02404	ug/m^3	Res-21	518936.25	4264331.91	39.90	1.50	39.90	
PERIOD		0.02552	ug/m^3	Res-22	518905.03	4264205.43	38.97	1.50	38.97	
PERIOD		0.01769	ug/m^3	Res-23	518930.62	4264196.94	39.14	1.50	39.14	
PERIOD		0.01272	ug/m^3	Res-24	518959.79	4264196.75	39.38	1.50	39.38	
PERIOD		0.01955	ug/m^3	Res-25	518926.37	4264211.00	39.21	1.50	39.21	
PERIOD		0.01983	ug/m^3	Res-26	518956.06	4264354.52	40.23	1.50	40.23	
PERIOD		0.01724	ug/m^3	Res-27	518969.83	4264354.02	40.67	1.50	40.67	
PERIOD		0.01529	ug/m^3	Res-28	518982.85	4264353.77	40.74	1.50	40.74	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.02037	ug/m^3	Res-29	518954.56	4264381.31	40.14	1.50	40.14	
PERIOD		0.01749	ug/m^3	Res-30	518969.83	4264380.56	40.71	1.50	40.71	
PERIOD		0.01561	ug/m^3	Res-31	518982.60	4264382.06	40.73	1.50	40.73	
PERIOD		0.01853	ug/m^3	Res-32	518959.07	4264430.88	40.00	1.50	40.00	
PERIOD		0.01655	ug/m^3	Res-33	518972.33	4264430.88	40.02	1.50	40.02	
PERIOD		0.01498	ug/m^3	Res-34	518984.10	4264431.63	40.21	1.50	40.21	
PERIOD		0.01105	ug/m^3	Res-35	519011.29	4264478.60	40.90	1.50	40.90	
PERIOD		0.01414	ug/m^3	Res-36	518941.30	4264143.93	38.99	1.50	38.99	
PERIOD		0.01021	ug/m^3	Res-37	518973.01	4264142.65	39.30	1.50	39.30	
PERIOD		0.00826	ug/m^3	Res-38	518995.57	4264144.57	39.50	1.50	39.50	
PERIOD		0.00710	ug/m^3	Res-39	519013.03	4264146.48	39.63	1.50	39.63	
PERIOD		0.00544	ug/m^3	Res-40	519046.66	4264147.33	39.91	1.50	39.91	
PERIOD		0.01293	ug/m^3	Res-41	518948.67	4264129.70	39.06	1.50	39.06	
PERIOD		0.00917	ug/m^3	Res-42	518983.72	4264117.03	39.27	1.50	39.27	
PERIOD		0.03816	ug/m^3	Res-43	518659.95	4264515.73	37.58	1.50	37.58	
PERIOD		0.03106	ug/m^3	Res-44	518635.37	4264517.30	37.38	1.50	37.38	
PERIOD		0.02592	ug/m^3	Res-45	518614.71	4264516.12	37.41	1.50	37.41	
PERIOD		0.02084	ug/m^3	Res-46	518591.37	4264510.74	37.49	1.50	37.49	
PERIOD		0.01613	ug/m^3	Res-47	518566.90	4264509.51	37.43	1.50	37.43	
PERIOD		0.01779	ug/m^3	Res-48	518586.07	4264558.86	37.69	1.50	37.69	

Sensitive Receptor Summary

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Project Construction

PM2.5 - Concentration - Source Group: ALL

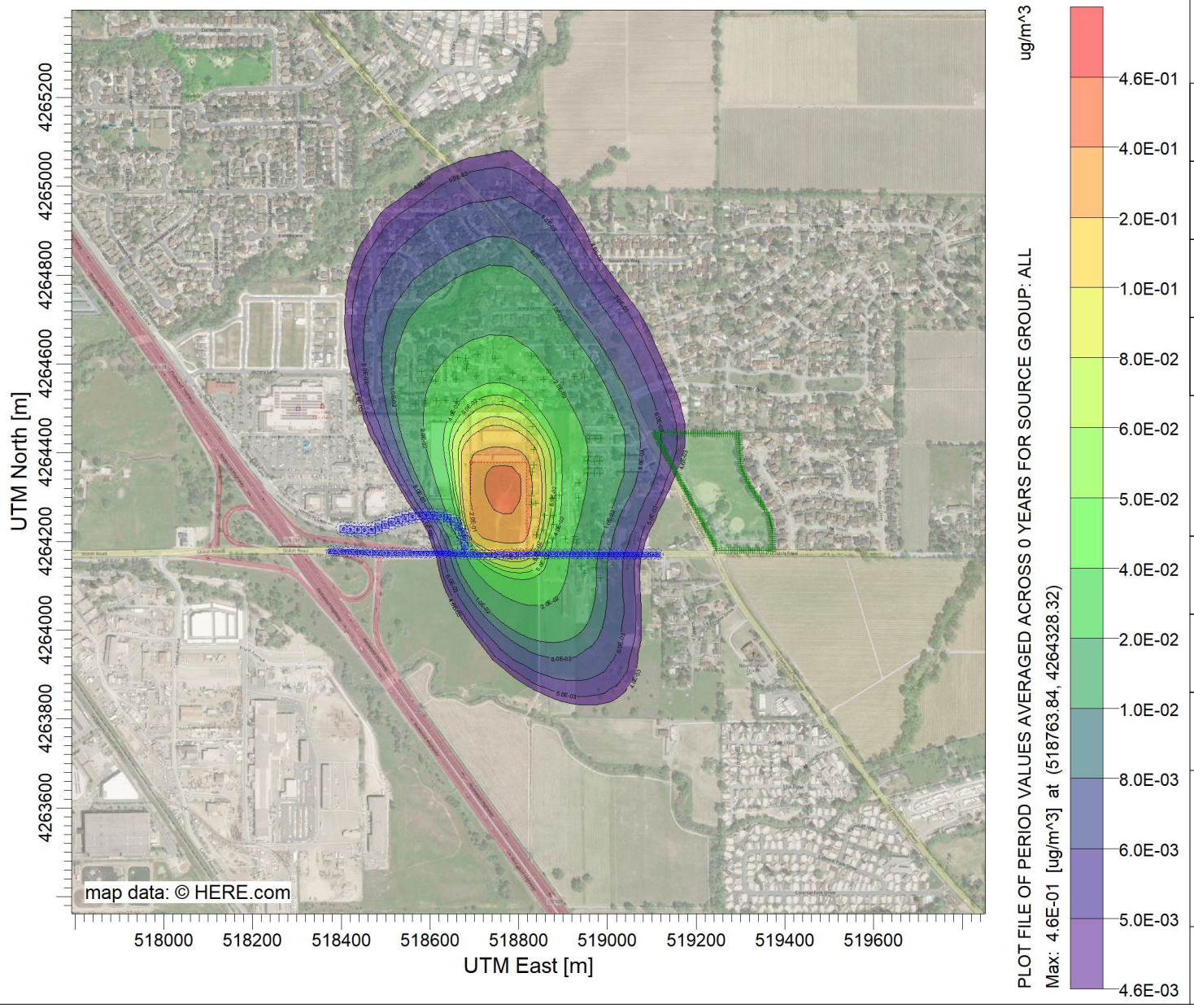
Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.01608	ug/m^3	Res-50	518581.59	4264583.74	37.76	1.50	37.76	
PERIOD		0.01906	ug/m^3	Res-51	518607.69	4264584.96	37.85	1.50	37.85	
PERIOD		0.02825	ug/m^3	Res-52	518659.48	4264565.79	37.98	1.50	37.98	
PERIOD		0.02726	ug/m^3	Res-53	518681.91	4264589.45	38.41	1.50	38.41	
PERIOD		0.03289	ug/m^3	Res-54	518704.75	4264573.13	38.53	1.50	38.53	
PERIOD		0.02433	ug/m^3	Res-55	518707.19	4264622.07	38.61	1.50	38.61	
PERIOD		0.02199	ug/m^3	Res-56	518661.93	4264613.92	37.99	1.50	37.99	
PERIOD		0.02355	ug/m^3	Res-57	518680.28	4264613.51	38.56	1.50	38.56	
PERIOD		0.02568	ug/m^3	Res-58	518683.54	4264600.46	38.52	1.50	38.52	
PERIOD		0.02731	ug/m^3	Res-59	518747.16	4264612.28	38.91	1.50	38.91	
PERIOD		0.03731	ug/m^3	Res-60	518757.76	4264565.79	38.95	1.50	38.95	
PERIOD		0.03212	ug/m^3	Res-61	518786.72	4264579.25	39.16	1.50	39.16	
PERIOD		0.03265	ug/m^3	Res-62	518809.15	4264563.35	39.35	1.50	39.35	
PERIOD		0.02380	ug/m^3	Res-63	518856.45	4264564.98	39.58	1.50	39.58	
PERIOD		0.01978	ug/m^3	Res-64	518870.73	4264580.07	39.69	1.50	39.69	
PERIOD		0.01772	ug/m^3	Res-65	518900.09	4264559.27	39.86	1.50	39.86	
PERIOD		0.01411	ug/m^3	Res-66	518925.38	4264572.32	40.16	1.50	40.16	
PERIOD		0.01239	ug/m^3	Res-67	518947.80	4264569.06	40.89	1.50	40.89	
PERIOD		0.02134	ug/m^3	Res-68	518829.13	4264617.18	39.36	1.50	39.36	
PERIOD		0.01166	ug/m^3	Res-69	518923.74	4264621.26	40.17	1.50	40.17	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
Project Construction

PROJECT TITLE:

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
Project Construction



COMMENTS:

SOURCES:

3

RECEPTORS:

2308

OUTPUT TYPE:

Concentration

MAX:

4.6E-01 ug/m^3

COMPANY NAME:

MODELER:

DATE:

6/2/2022

SCALE: 1:13,863

0 0.4 km

PROJECT NO.:

Control Pathway

AERMOD

Dispersion Options

Titles

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
MITIGATED Project Construction

Dispersion Options

☐ Regulatory Default ☑ Non-Default Options

☑ Flat & Elevated Terrain
☐ No Stack-Tip Downwash (NOSTD)
☐ Run in Screening Mode
☐ Conversion of NOx to NO2 (OLM or PVMRM)
☐ No Checks for Non-Sequential Met Data
☑ Fast All Sources (FASTALL)
☐ Fast Area Sources (FASTAREA)
☐ Optimized Area Source Plume Depletion
☐ Gas Deposition

BETA Options:

☐ Capped and Horizontal Stack Releases
☐ Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
☐ Low Wind Options

☐ SCIM (Sampled Chronological Input Model)
☐ Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Urban
Population:
Name (Optional):
Roughness Length:

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM2.5

Averaging Time Options

Hours ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

☐ Yes ☑ No

Terrain Height Options

☐ Flat ☑ Elevated
SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.50 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: 32490019 Shiloh Crossing Mitigated.err

Source Pathway - Source Inputs

Polygon Area Sources

Source Type: AREA POLY

Source: P.SITE (On-site)

Base Elevation (Optional)	Release Height [m]	Emission Rate [g/ (s-m^2)]	Initial Vertical Dim. [m]	Number of Vertices (or sides)	X Coordinate for Vertices [m]	Y Coordinate for Vertices [m]
38.13	3.00	1.20E-8		8	518692.81	4264377.95
		1.20E-8			518817.91	4264378.63
		1.20E-8			518818.80	4264179.85
		1.20E-8			518758.11	4264178.01
		1.20E-8			518740.71	4264180.12
		1.20E-8			518703.93	4264180.59
		1.20E-8			518694.64	4264184.59
		1.20E-8			518688.88	4264191.41

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: HEMBREE (Hembree Rd - Off-site)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	2.01E-6		518678.38	4264181.48	37.30	2.83
			518677.91	4264202.18	37.37	2.83
			518671.55	4264224.88	37.07	2.83
			518655.91	4264243.70	37.01	2.83
			518633.91	4264254.92	36.88	2.83
			518618.44	4264257.85	36.82	2.83
			518592.40	4264259.15	36.68	2.83
			518581.16	4264258.82	36.64	2.83
			518554.63	4264255.40	36.46	2.83
			518521.42	4264245.64	36.30	2.83
			518477.05	4264228.90	36.30	2.83
			518468.05	4264226.02	36.41	2.83
			518447.75	4264225.64	36.38	2.83
			518420.36	4264226.98	36.28	2.83
			518401.59	4264228.70	36.20	2.83

Source Type: LINE VOLUME

Source: SHILOH (Shiloh Rd - Off-site)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
11.00	5.02E-6		518371.53	4264178.30	38.26	2.83
			518493.59	4264173.94	36.86	2.83
			518631.30	4264173.23	36.89	2.83
			518687.51	4264170.42	37.18	2.83
			518729.67	4264169.72	37.40	2.83
			518830.14	4264171.83	37.82	2.83
			519114.26	4264170.66	40.32	2.83

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
HEMBREE	L0000211	518678.19	4264189.48	37.32	2.83	9.56E-8	16.00		7.44	2.63
	L0000212	518677.02	4264205.35	37.27	2.83	9.56E-8	16.00		7.44	2.63
	L0000213	518672.71	4264220.76	37.10	2.83	9.56E-8	16.00		7.44	2.63
	L0000214	518664.06	4264233.89	37.04	2.83	9.56E-8	16.00		7.44	2.63
	L0000215	518653.02	4264245.17	36.99	2.83	9.56E-8	16.00		7.44	2.63
	L0000216	518638.76	4264252.44	36.94	2.83	9.56E-8	16.00		7.44	2.63
	L0000217	518623.54	4264256.88	36.84	2.83	9.56E-8	16.00		7.44	2.63
	L0000218	518607.64	4264258.39	36.74	2.83	9.56E-8	16.00		7.44	2.63
	L0000219	518591.66	4264259.13	36.68	2.83	9.56E-8	16.00		7.44	2.63
	L0000220	518575.71	4264258.12	36.59	2.83	9.56E-8	16.00		7.44	2.63
	L0000221	518559.84	4264256.08	36.49	2.83	9.56E-8	16.00		7.44	2.63
	L0000222	518544.32	4264252.37	36.40	2.83	9.56E-8	16.00		7.44	2.63
	L0000223	518528.97	4264247.86	36.29	2.83	9.56E-8	16.00		7.44	2.63
	L0000224	518513.82	4264242.77	36.14	2.83	9.56E-8	16.00		7.44	2.63
	L0000225	518498.85	4264237.12	36.25	2.83	9.56E-8	16.00		7.44	2.63
	L0000226	518483.88	4264231.47	36.33	2.83	9.56E-8	16.00		7.44	2.63
	L0000227	518468.76	4264226.25	36.37	2.83	9.56E-8	16.00		7.44	2.63
	L0000228	518452.80	4264225.73	36.40	2.83	9.56E-8	16.00		7.44	2.63
	L0000229	518436.81	4264226.17	36.37	2.83	9.56E-8	16.00		7.44	2.63
	L0000230	518420.83	4264226.96	36.29	2.83	9.56E-8	16.00		7.44	2.63
	L0000231	518404.90	4264228.40	36.20	2.83	9.56E-8	16.00		7.44	2.63

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000232	518377.03	4264178.11	38.64	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000233	518388.02	4264177.71	38.69	2.83	7.38E-8	11.00		5.12	2.63
	L0000234	518399.02	4264177.32	38.43	2.83	7.38E-8	11.00		5.12	2.63
	L0000235	518410.01	4264176.93	38.10	2.83	7.38E-8	11.00		5.12	2.63
	L0000236	518421.00	4264176.53	37.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000237	518432.00	4264176.14	37.59	2.83	7.38E-8	11.00		5.12	2.63
	L0000238	518442.99	4264175.75	37.37	2.83	7.38E-8	11.00		5.12	2.63
	L0000239	518453.98	4264175.35	37.20	2.83	7.38E-8	11.00		5.12	2.63
	L0000240	518464.97	4264174.96	37.04	2.83	7.38E-8	11.00		5.12	2.63
	L0000241	518475.97	4264174.57	36.96	2.83	7.38E-8	11.00		5.12	2.63
	L0000242	518486.96	4264174.17	36.88	2.83	7.38E-8	11.00		5.12	2.63
	L0000243	518497.96	4264173.91	36.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000244	518508.96	4264173.86	36.66	2.83	7.38E-8	11.00		5.12	2.63
	L0000245	518519.96	4264173.80	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000246	518530.96	4264173.75	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000247	518541.96	4264173.69	36.62	2.83	7.38E-8	11.00		5.12	2.63
	L0000248	518552.96	4264173.63	36.60	2.83	7.38E-8	11.00		5.12	2.63
	L0000249	518563.96	4264173.58	36.64	2.83	7.38E-8	11.00		5.12	2.63
	L0000250	518574.96	4264173.52	36.75	2.83	7.38E-8	11.00		5.12	2.63
	L0000251	518585.96	4264173.46	36.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000252	518596.96	4264173.41	36.80	2.83	7.38E-8	11.00		5.12	2.63
	L0000253	518607.95	4264173.35	36.78	2.83	7.38E-8	11.00		5.12	2.63
	L0000254	518618.95	4264173.30	36.88	2.83	7.38E-8	11.00		5.12	2.63
	L0000255	518629.95	4264173.24	36.98	2.83	7.38E-8	11.00		5.12	2.63
	L0000256	518640.94	4264172.75	37.02	2.83	7.38E-8	11.00		5.12	2.63
	L0000257	518651.93	4264172.20	37.04	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000258	518662.92	4264171.65	37.10	2.83	7.38E-8	11.00		5.12	2.63
	L0000259	518673.90	4264171.10	37.17	2.83	7.38E-8	11.00		5.12	2.63
	L0000260	518684.89	4264170.55	37.23	2.83	7.38E-8	11.00		5.12	2.63
	L0000261	518695.88	4264170.28	37.29	2.83	7.38E-8	11.00		5.12	2.63
	L0000262	518706.88	4264170.10	37.33	2.83	7.38E-8	11.00		5.12	2.63
	L0000263	518717.88	4264169.92	37.36	2.83	7.38E-8	11.00		5.12	2.63
	L0000264	518728.88	4264169.73	37.39	2.83	7.38E-8	11.00		5.12	2.63
	L0000265	518739.88	4264169.93	37.46	2.83	7.38E-8	11.00		5.12	2.63
	L0000266	518750.87	4264170.16	37.54	2.83	7.38E-8	11.00		5.12	2.63
	L0000267	518761.87	4264170.40	37.56	2.83	7.38E-8	11.00		5.12	2.63
	L0000268	518772.87	4264170.63	37.57	2.83	7.38E-8	11.00		5.12	2.63
	L0000269	518783.87	4264170.86	37.62	2.83	7.38E-8	11.00		5.12	2.63
	L0000270	518794.86	4264171.09	37.70	2.83	7.38E-8	11.00		5.12	2.63
	L0000271	518805.86	4264171.32	37.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000272	518816.86	4264171.55	37.84	2.83	7.38E-8	11.00		5.12	2.63
	L0000273	518827.86	4264171.78	37.91	2.83	7.38E-8	11.00		5.12	2.63
	L0000274	518838.86	4264171.79	37.97	2.83	7.38E-8	11.00		5.12	2.63
	L0000275	518849.86	4264171.75	38.04	2.83	7.38E-8	11.00		5.12	2.63
	L0000276	518860.86	4264171.70	38.12	2.83	7.38E-8	11.00		5.12	2.63
	L0000277	518871.86	4264171.66	38.21	2.83	7.38E-8	11.00		5.12	2.63
	L0000278	518882.86	4264171.61	38.30	2.83	7.38E-8	11.00		5.12	2.63
	L0000279	518893.86	4264171.57	38.39	2.83	7.38E-8	11.00		5.12	2.63
	L0000280	518904.86	4264171.52	38.49	2.83	7.38E-8	11.00		5.12	2.63
	L0000281	518915.86	4264171.48	38.59	2.83	7.38E-8	11.00		5.12	2.63
	L0000282	518926.86	4264171.43	38.69	2.83	7.38E-8	11.00		5.12	2.63

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
SHILOH	L0000283	518937.86	4264171.39	38.77	2.83	7.38E-8	11.00		5.12	2.63
	L0000284	518948.86	4264171.34	38.86	2.83	7.38E-8	11.00		5.12	2.63
	L0000285	518959.86	4264171.30	38.97	2.83	7.38E-8	11.00		5.12	2.63
	L0000286	518970.86	4264171.25	39.07	2.83	7.38E-8	11.00		5.12	2.63
	L0000287	518981.86	4264171.20	39.19	2.83	7.38E-8	11.00		5.12	2.63
	L0000288	518992.86	4264171.16	39.31	2.83	7.38E-8	11.00		5.12	2.63
	L0000289	519003.85	4264171.11	39.40	2.83	7.38E-8	11.00		5.12	2.63
	L0000290	519014.85	4264171.07	39.47	2.83	7.38E-8	11.00		5.12	2.63
	L0000291	519025.85	4264171.02	39.55	2.83	7.38E-8	11.00		5.12	2.63
	L0000292	519036.85	4264170.98	39.63	2.83	7.38E-8	11.00		5.12	2.63
	L0000293	519047.85	4264170.93	39.72	2.83	7.38E-8	11.00		5.12	2.63
	L0000294	519058.85	4264170.89	39.83	2.83	7.38E-8	11.00		5.12	2.63
	L0000295	519069.85	4264170.84	39.94	2.83	7.38E-8	11.00		5.12	2.63
	L0000296	519080.85	4264170.80	40.06	2.83	7.38E-8	11.00		5.12	2.63
	L0000297	519091.85	4264170.75	40.18	2.83	7.38E-8	11.00		5.12	2.63
	L0000298	519102.85	4264170.71	40.26	2.83	7.38E-8	11.00		5.12	2.63
	L0000299	519113.85	4264170.66	40.34	2.83	7.38E-8	11.00		5.12	2.63

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	519104.86	4264445.48		42.19	1.50
2	519295.67	4264442.65		43.41	1.50
3	519300.19	4264370.40		43.43	1.50
4	519314.86	4264334.83		43.46	1.50
5	519343.09	4264291.36		43.51	1.50
6	519363.41	4264258.62		43.28	1.50
7	519371.88	4264224.75		43.31	1.50
8	519371.88	4264179.02		43.36	1.50
9	519247.69	4264180.15		42.07	1.50
10	519109.75	4264445.41		42.27	1.50
11	519114.65	4264445.34		42.35	1.50
12	519119.54	4264445.26		42.37	1.50
13	519124.43	4264445.19		42.37	1.50
14	519129.32	4264445.12		42.37	1.50
15	519134.22	4264445.05		42.37	1.50
16	519139.11	4264444.97		42.36	1.50
17	519144.00	4264444.90		42.37	1.50
18	519148.89	4264444.83		42.39	1.50
19	519153.79	4264444.75		42.40	1.50
20	519158.68	4264444.68		42.41	1.50
21	519163.57	4264444.61		42.42	1.50
22	519168.46	4264444.54		42.47	1.50
23	519173.36	4264444.46		42.52	1.50
24	519178.25	4264444.39		42.57	1.50
25	519183.14	4264444.32		42.63	1.50
26	519188.03	4264444.25		42.68	1.50
27	519192.93	4264444.17		42.67	1.50
28	519197.82	4264444.10		42.66	1.50
29	519202.71	4264444.03		42.65	1.50
30	519207.60	4264443.96		42.64	1.50

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31	519212.50	4264443.88	42.63	1.50
32	519217.39	4264443.81	42.64	1.50
33	519222.28	4264443.74	42.66	1.50
34	519227.17	4264443.67	42.68	1.50
35	519232.07	4264443.59	42.69	1.50
36	519236.96	4264443.52	42.71	1.50
37	519241.85	4264443.45	42.78	1.50
38	519246.74	4264443.38	42.84	1.50
39	519251.64	4264443.30	42.90	1.50
40	519256.53	4264443.23	42.96	1.50
41	519261.42	4264443.16	43.02	1.50
42	519266.31	4264443.09	43.06	1.50
43	519271.21	4264443.01	43.10	1.50
44	519276.10	4264442.94	43.14	1.50
45	519280.99	4264442.87	43.19	1.50
46	519285.88	4264442.80	43.24	1.50
47	519290.78	4264442.72	43.32	1.50
48	519295.97	4264437.83	43.44	1.50
49	519296.27	4264433.02	43.47	1.50
50	519296.57	4264428.20	43.51	1.50
51	519296.88	4264423.38	43.55	1.50
52	519297.18	4264418.57	43.60	1.50
53	519297.48	4264413.75	43.65	1.50
54	519297.78	4264408.93	43.63	1.50
55	519298.08	4264404.12	43.62	1.50
56	519298.38	4264399.30	43.61	1.50
57	519298.68	4264394.48	43.60	1.50
58	519298.98	4264389.67	43.59	1.50
59	519299.29	4264384.85	43.59	1.50
60	519299.59	4264380.03	43.54	1.50
61	519299.89	4264375.22	43.48	1.50
62	519302.02	4264365.95	43.53	1.50
63	519303.86	4264361.51	43.65	1.50
64	519305.69	4264357.06	43.76	1.50
65	519307.53	4264352.62	43.88	1.50
66	519309.36	4264348.17	43.87	1.50
67	519311.19	4264343.72	43.71	1.50
68	519313.03	4264339.28	43.57	1.50

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69	519317.43	4264330.88	43.43	1.50
70	519319.99	4264326.93	43.43	1.50
71	519322.56	4264322.98	43.47	1.50
72	519325.13	4264319.02	43.52	1.50
73	519327.69	4264315.07	43.55	1.50
74	519330.26	4264311.12	43.55	1.50
75	519332.82	4264307.17	43.51	1.50
76	519335.39	4264303.22	43.46	1.50
77	519337.96	4264299.26	43.44	1.50
78	519340.52	4264295.31	43.46	1.50
79	519345.63	4264287.27	43.54	1.50
80	519348.17	4264283.18	43.55	1.50
81	519350.71	4264279.08	43.54	1.50
82	519353.25	4264274.99	43.50	1.50
83	519355.79	4264270.90	43.44	1.50
84	519358.33	4264266.81	43.35	1.50
85	519360.87	4264262.71	43.29	1.50
86	519364.62	4264253.78	43.22	1.50
87	519365.83	4264248.94	43.17	1.50
88	519367.04	4264244.10	43.13	1.50
89	519368.25	4264239.27	43.11	1.50
90	519369.46	4264234.43	43.11	1.50
91	519370.67	4264229.59	43.11	1.50
92	519371.88	4264220.18	43.40	1.50
93	519371.88	4264215.60	43.50	1.50
94	519371.88	4264211.03	43.59	1.50
95	519371.88	4264206.46	43.68	1.50
96	519371.88	4264201.89	43.77	1.50
97	519371.88	4264197.31	43.80	1.50
98	519371.88	4264192.74	43.69	1.50
99	519371.88	4264188.17	43.58	1.50
100	519371.88	4264183.59	43.47	1.50
101	519366.91	4264179.07	43.32	1.50
102	519361.94	4264179.11	43.28	1.50
103	519356.98	4264179.16	43.22	1.50
104	519352.01	4264179.20	43.14	1.50
105	519347.04	4264179.25	43.05	1.50
106	519342.07	4264179.29	42.96	1.50

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107	519337.11	4264179.34	42.88	1.50
108	519332.14	4264179.38	42.80	1.50
109	519327.17	4264179.43	42.75	1.50
110	519322.20	4264179.47	42.70	1.50
111	519317.24	4264179.52	42.64	1.50
112	519312.27	4264179.56	42.59	1.50
113	519307.30	4264179.61	42.52	1.50
114	519302.33	4264179.65	42.45	1.50
115	519297.37	4264179.70	42.38	1.50
116	519292.40	4264179.74	42.31	1.50
117	519287.43	4264179.79	42.24	1.50
118	519282.46	4264179.83	42.19	1.50
119	519277.50	4264179.88	42.14	1.50
120	519272.53	4264179.92	42.09	1.50
121	519267.56	4264179.97	42.05	1.50
122	519262.59	4264180.01	42.00	1.50
123	519257.63	4264180.06	42.01	1.50
124	519252.66	4264180.11	42.04	1.50
125	519245.35	4264184.50	42.07	1.50
126	519243.01	4264188.85	42.07	1.50
127	519240.67	4264193.20	42.06	1.50
128	519238.32	4264197.55	42.05	1.50
129	519235.98	4264201.90	42.11	1.50
130	519233.64	4264206.25	42.16	1.50
131	519231.30	4264210.60	42.22	1.50
132	519228.96	4264214.95	42.26	1.50
133	519226.62	4264219.30	42.30	1.50
134	519224.28	4264223.65	42.34	1.50
135	519221.93	4264228.00	42.37	1.50
136	519219.59	4264232.35	42.38	1.50
137	519217.25	4264236.70	42.41	1.50
138	519214.91	4264241.05	42.47	1.50
139	519212.57	4264245.40	42.53	1.50
140	519210.23	4264249.75	42.56	1.50
141	519207.88	4264254.09	42.59	1.50
142	519205.54	4264258.44	42.63	1.50
143	519203.20	4264262.79	42.52	1.50
144	519200.86	4264267.14	42.38	1.50

145	519198.52	4264271.49	42.27	1.50
146	519196.18	4264275.84	42.21	1.50
147	519193.84	4264280.19	42.20	1.50
148	519191.49	4264284.54	42.22	1.50
149	519189.15	4264288.89	42.29	1.50
150	519186.81	4264293.24	42.30	1.50
151	519184.47	4264297.59	42.28	1.50
152	519182.13	4264301.94	42.27	1.50
153	519179.79	4264306.29	42.27	1.50
154	519177.45	4264310.64	42.28	1.50
155	519175.10	4264314.99	42.30	1.50
156	519172.76	4264319.34	42.32	1.50
157	519170.42	4264323.69	42.33	1.50
158	519168.08	4264328.04	42.36	1.50
159	519165.74	4264332.39	42.44	1.50
160	519163.40	4264336.74	42.53	1.50
161	519161.06	4264341.09	42.56	1.50
162	519158.71	4264345.44	42.59	1.50
163	519156.37	4264349.79	42.62	1.50
164	519154.03	4264354.14	42.59	1.50
165	519151.69	4264358.49	42.49	1.50
166	519149.35	4264362.84	42.40	1.50
167	519147.01	4264367.19	42.34	1.50
168	519144.67	4264371.54	42.29	1.50
169	519142.32	4264375.89	42.25	1.50
170	519139.98	4264380.24	42.24	1.50
171	519137.64	4264384.59	42.23	1.50
172	519135.30	4264388.93	42.28	1.50
173	519132.96	4264393.28	42.31	1.50
174	519130.62	4264397.63	42.32	1.50
175	519128.27	4264401.98	42.33	1.50
176	519125.93	4264406.33	42.32	1.50
177	519123.59	4264410.68	42.30	1.50
178	519121.25	4264415.03	42.25	1.50
179	519118.91	4264419.38	42.21	1.50
180	519116.57	4264423.73	42.18	1.50
181	519114.23	4264428.08	42.18	1.50
182	519111.88	4264432.43	42.19	1.50

183	519109.54	4264436.78	42.20	1.50
184	519107.20	4264441.13	42.20	1.50
185	518717.99	4264519.28	38.06	1.50
186	518763.40	4264515.69	38.52	1.50
187	518815.39	4264517.49	39.04	1.50
188	518831.14	4264458.58	39.06	1.50
189	518833.50	4264407.64	39.04	1.50
190	518833.80	4264372.46	38.98	1.50
191	518830.61	4264357.36	38.77	1.50
192	518829.49	4264302.88	38.69	1.50
193	518838.53	4264286.07	38.77	1.50
194	518828.41	4264282.81	38.60	1.50
195	518839.89	4264214.34	38.48	1.50
196	518865.16	4264196.74	38.58	1.50
197	518877.96	4264238.55	38.90	1.50
198	518875.09	4264206.15	38.73	1.50
199	518856.67	4264226.79	38.72	1.50
200	518877.61	4264258.86	38.89	1.50
201	518857.97	4264259.52	38.86	1.50
202	518874.43	4264296.83	39.22	1.50
203	518891.98	4264304.70	39.22	1.50
204	518935.02	4264298.56	39.85	1.50
205	518936.25	4264331.91	39.90	1.50
206	518905.03	4264205.43	38.97	1.50
207	518930.62	4264196.94	39.14	1.50
208	518959.79	4264196.75	39.38	1.50
209	518926.37	4264211.00	39.21	1.50
210	518956.06	4264354.52	40.23	1.50
211	518969.83	4264354.02	40.67	1.50
212	518982.85	4264353.77	40.74	1.50
213	518954.56	4264381.31	40.14	1.50
214	518969.83	4264380.56	40.71	1.50
215	518982.60	4264382.06	40.73	1.50
216	518959.07	4264430.88	40.00	1.50
217	518972.33	4264430.88	40.02	1.50
218	518984.10	4264431.63	40.21	1.50
219	519011.29	4264478.60	40.90	1.50
220	518941.30	4264143.93	38.99	1.50

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221	518973.01	4264142.65		39.30	1.50
222	518995.57	4264144.57		39.50	1.50
223	519013.03	4264146.48		39.63	1.50
224	519046.66	4264147.33		39.91	1.50
225	518948.67	4264129.70		39.06	1.50
226	518983.72	4264117.03		39.27	1.50
227	518659.95	4264515.73		37.58	1.50
228	518635.37	4264517.30		37.38	1.50
229	518614.71	4264516.12		37.41	1.50
230	518591.37	4264510.74		37.49	1.50
231	518566.90	4264509.52		37.43	1.50
232	518586.07	4264558.86		37.69	1.50
233	518611.36	4264561.72		37.68	1.50
234	518581.59	4264583.74		37.76	1.50
235	518607.69	4264584.96		37.85	1.50
236	518659.48	4264565.79		37.98	1.50
237	518681.91	4264589.45		38.41	1.50
238	518704.75	4264573.13		38.53	1.50
239	518707.19	4264622.07		38.61	1.50
240	518661.93	4264613.92		37.99	1.50
241	518680.28	4264613.51		38.56	1.50
242	518683.54	4264600.46		38.52	1.50
243	518747.16	4264612.28		38.91	1.50
244	518757.76	4264565.79		38.95	1.50
245	518786.72	4264579.25		39.16	1.50
246	518809.15	4264563.35		39.35	1.50
247	518856.45	4264564.98		39.58	1.50
248	518870.73	4264580.07		39.69	1.50
249	518900.09	4264559.27		39.86	1.50
250	518925.38	4264572.32		40.16	1.50
251	518947.80	4264569.06		40.89	1.50
252	518829.13	4264617.18		39.36	1.50
253	518923.74	4264621.26		40.17	1.50

Plant Boundary Receptors

Receptor Groups

Record Number	Group ID	Group Description
1	FENCEPRI	Cartesian plant boundary Primary Receptors
2	FENCEINT	Cartesian plant boundary Intermediate Receptors

Control Pathway

Dispersion Options

Titles

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Project Construction

Dispersion Options

- [ ] Regulatory Default
- [x] Non-Default Options

- [x] Flat & Elevated Terrain
- [ ] No Stack-Tip Downwash (NOSTD)
- [ ] Run in Screening Mode
- [ ] Conversion of NOx to NO2 (OLM or PVMRM)
- [ ] No Checks for Non-Sequential Met Data
- [x] Fast All Sources (FASTALL)
- [ ] Fast Area Sources (FASTAREA)
- [ ] Optimized Area Source Plume Depletion
- [ ] Gas Deposition

BETA Options:

- [ ] Capped and Horizontal Stack Releases
- [ ] Adjusted Friction Velocity (u*) in AERMET (ADJ_U*)
- [ ] Low Wind Options

- [ ] SCIM (Sampled Chronological Input Model)
- [ ] Ignore Urban Night / Daytime Transition (NOURBTRAN)

Dispersion Coefficient

Urban
Population:
Name (Optional):
Roughness Length:

Output Type

- [x] Concentration
- [ ] Total Deposition (Dry & Wet)
- [ ] Dry Deposition
- [ ] Wet Deposition

Plume Depletion

- [ ] Dry Removal
- [ ] Wet Removal

Output Warnings

- [ ] No Output Warnings
- [ ] Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

PM2.5

Averaging Time Options

Hours: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 6 [ ] 8 [ ] 12 [ ] 24

- [ ] Month
- [x] Period
- [ ] Annual

Exponential Decay

- [ ] Yes
- [x] No

Terrain Height Options

- [ ] Flat
- [x] Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

- [x] Yes
- [ ] No

Default Height = 1.50 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File
☐	☐	☐	☐	■

Detailed Error Listing File

Filename: 324900019 Shiloh Crossing.err

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: C:\01. Project Files\32490019 Shiloh Crossing\Sonoma County Airport Met Data\724957.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: C:\01. Project Files\32490019 Shiloh Crossing\Sonoma County Airport Met Data\724957.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 36.88 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface Upper Air		2009 2009			OAKLAND/WSO AP

Data Period

Data Period to Process

Start Date: 1/1/2009 Start Hour: 1 End Date: 1/2/2014 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00089	ug/m^3	P-1	519104.86	4264445.48	42.19	1.50	42.19	
PERIOD		0.00037	ug/m^3	P-2	519295.67	4264442.65	43.41	1.50	43.41	
PERIOD		0.00032	ug/m^3	P-3	519300.19	4264370.40	43.43	1.50	43.43	
PERIOD		0.00028	ug/m^3	P-4	519314.86	4264334.83	43.46	1.50	43.46	
PERIOD		0.00022	ug/m^3	P-5	519343.09	4264291.36	43.51	1.50	43.51	
PERIOD		0.00019	ug/m^3	P-6	519363.41	4264258.62	43.28	1.50	43.28	
PERIOD		0.00017	ug/m^3	P-7	519371.88	4264224.75	43.31	1.50	43.31	
PERIOD		0.00015	ug/m^3	P-8	519371.88	4264179.02	43.36	1.50	43.36	
PERIOD		0.00025	ug/m^3	P-9	519247.69	4264180.15	42.07	1.50	42.07	
PERIOD		0.00087	ug/m^3	P-10	519109.75	4264445.41	42.27	1.50	42.27	
PERIOD		0.00082	ug/m^3	P-12	519119.54	4264445.26	42.37	1.50	42.37	
PERIOD		0.00080	ug/m^3	P-13	519124.43	4264445.19	42.37	1.50	42.37	
PERIOD		0.00078	ug/m^3	P-14	519129.32	4264445.12	42.37	1.50	42.37	
PERIOD		0.00075	ug/m^3	P-16	519139.11	4264444.97	42.36	1.50	42.36	
PERIOD		0.00073	ug/m^3	P-17	519144.00	4264444.90	42.37	1.50	42.37	
PERIOD		0.00071	ug/m^3	P-18	519148.89	4264444.83	42.39	1.50	42.39	
PERIOD		0.00069	ug/m^3	P-19	519153.79	4264444.75	42.40	1.50	42.40	
PERIOD		0.00068	ug/m^3	P-20	519158.68	4264444.68	42.41	1.50	42.41	
PERIOD		0.00066	ug/m^3	P-21	519163.57	4264444.61	42.42	1.50	42.42	
PERIOD		0.00065	ug/m^3	P-22	519168.46	4264444.54	42.47	1.50	42.47	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00063	ug/m^3	P-23	519173.36	4264444.46	42.52	1.50	42.52	
PERIOD		0.00062	ug/m^3	P-24	519178.25	4264444.39	42.57	1.50	42.57	
PERIOD		0.00060	ug/m^3	P-25	519183.14	4264444.32	42.63	1.50	42.63	
PERIOD		0.00059	ug/m^3	P-26	519188.03	4264444.25	42.68	1.50	42.68	
PERIOD		0.00058	ug/m^3	P-27	519192.93	4264444.17	42.67	1.50	42.67	
PERIOD		0.00056	ug/m^3	P-28	519197.82	4264444.10	42.66	1.50	42.66	
PERIOD		0.00055	ug/m^3	P-29	519202.71	4264444.03	42.65	1.50	42.65	
PERIOD		0.00054	ug/m^3	P-30	519207.60	4264443.96	42.64	1.50	42.64	
PERIOD		0.00053	ug/m^3	P-31	519212.50	4264443.88	42.63	1.50	42.63	
PERIOD		0.00052	ug/m^3	P-32	519217.39	4264443.81	42.64	1.50	42.64	
PERIOD		0.00050	ug/m^3	P-33	519222.28	4264443.74	42.66	1.50	42.66	
PERIOD		0.00049	ug/m^3	P-34	519227.17	4264443.67	42.68	1.50	42.68	
PERIOD		0.00048	ug/m^3	P-35	519232.07	4264443.59	42.69	1.50	42.69	
PERIOD		0.00047	ug/m^3	P-36	519236.96	4264443.52	42.71	1.50	42.71	
PERIOD		0.00046	ug/m^3	P-37	519241.85	4264443.45	42.78	1.50	42.78	
PERIOD		0.00045	ug/m^3	P-38	519246.74	4264443.38	42.84	1.50	42.84	
PERIOD		0.00044	ug/m^3	P-39	519251.64	4264443.30	42.90	1.50	42.90	
PERIOD		0.00044	ug/m^3	P-40	519256.53	4264443.23	42.96	1.50	42.96	
PERIOD		0.00043	ug/m^3	P-41	519261.42	4264443.16	43.02	1.50	43.02	
PERIOD		0.00041	ug/m^3	P-43	519271.21	4264443.01	43.10	1.50	43.10	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00040	ug/m^3	P-44	519276.10	4264442.94	43.14	1.50	43.14	
PERIOD		0.00039	ug/m^3	P-45	519280.99	4264442.87	43.19	1.50	43.19	
PERIOD		0.00038	ug/m^3	P-47	519290.78	4264442.72	43.32	1.50	43.32	
PERIOD		0.00037	ug/m^3	P-48	519295.97	4264437.83	43.44	1.50	43.44	
PERIOD		0.00037	ug/m^3	P-49	519296.27	4264433.02	43.47	1.50	43.47	
PERIOD		0.00036	ug/m^3	P-50	519296.57	4264428.20	43.51	1.50	43.51	
PERIOD		0.00036	ug/m^3	P-51	519296.88	4264423.38	43.55	1.50	43.55	
PERIOD		0.00036	ug/m^3	P-52	519297.18	4264418.57	43.60	1.50	43.60	
PERIOD		0.00035	ug/m^3	P-53	519297.48	4264413.75	43.65	1.50	43.65	
PERIOD		0.00035	ug/m^3	P-54	519297.78	4264408.93	43.63	1.50	43.63	
PERIOD		0.00035	ug/m^3	P-55	519298.08	4264404.12	43.62	1.50	43.62	
PERIOD		0.00034	ug/m^3	P-56	519298.38	4264399.30	43.61	1.50	43.61	
PERIOD		0.00034	ug/m^3	P-57	519298.68	4264394.48	43.60	1.50	43.60	
PERIOD		0.00034	ug/m^3	P-58	519298.98	4264389.67	43.59	1.50	43.59	
PERIOD		0.00033	ug/m^3	P-59	519299.29	4264384.85	43.59	1.50	43.59	
PERIOD		0.00033	ug/m^3	P-60	519299.59	4264380.03	43.54	1.50	43.54	
PERIOD		0.00033	ug/m^3	P-61	519299.89	4264375.22	43.48	1.50	43.48	
PERIOD		0.00032	ug/m^3	P-62	519302.02	4264365.95	43.53	1.50	43.53	
PERIOD		0.00031	ug/m^3	P-63	519303.86	4264361.51	43.65	1.50	43.65	
PERIOD		0.00031	ug/m^3	P-64	519305.69	4264357.06	43.76	1.50	43.76	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00030	ug/m^3	P-65	519307.53	4264352.62	43.88	1.50	44.09	
PERIOD		0.00029	ug/m^3	P-66	519309.36	4264348.17	43.87	1.50	43.87	
PERIOD		0.00029	ug/m^3	P-67	519311.19	4264343.72	43.71	1.50	43.71	
PERIOD		0.00028	ug/m^3	P-68	519313.03	4264339.28	43.57	1.50	43.57	
PERIOD		0.00027	ug/m^3	P-69	519317.43	4264330.88	43.43	1.50	43.43	
PERIOD		0.00027	ug/m^3	P-70	519319.99	4264326.93	43.43	1.50	43.43	
PERIOD		0.00026	ug/m^3	P-71	519322.56	4264322.97	43.47	1.50	43.47	
PERIOD		0.00026	ug/m^3	P-72	519325.13	4264319.02	43.52	1.50	43.52	
PERIOD		0.00025	ug/m^3	P-73	519327.69	4264315.07	43.55	1.50	43.55	
PERIOD		0.00025	ug/m^3	P-74	519330.26	4264311.12	43.55	1.50	43.55	
PERIOD		0.00024	ug/m^3	P-75	519332.82	4264307.17	43.51	1.50	43.51	
PERIOD		0.00023	ug/m^3	P-77	519337.96	4264299.26	43.44	1.50	43.44	
PERIOD		0.00023	ug/m^3	P-78	519340.52	4264295.31	43.46	1.50	43.46	
PERIOD		0.00022	ug/m^3	P-79	519345.63	4264287.27	43.54	1.50	43.54	
PERIOD		0.00021	ug/m^3	P-81	519350.71	4264279.08	43.54	1.50	43.54	
PERIOD		0.00020	ug/m^3	P-82	519353.25	4264274.99	43.50	1.50	43.50	
PERIOD		0.00020	ug/m^3	P-83	519355.79	4264270.90	43.44	1.50	43.44	
PERIOD		0.00019	ug/m^3	P-85	519360.87	4264262.71	43.29	1.50	43.29	
PERIOD		0.00019	ug/m^3	P-86	519364.62	4264253.78	43.22	1.50	43.22	
PERIOD		0.00018	ug/m^3	P-87	519365.83	4264248.94	43.17	1.50	43.17	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00018	ug/m^3	P-88	519367.04	4264244.10	43.13	1.50	43.13	
PERIOD		0.00018	ug/m^3	P-89	519368.25	4264239.27	43.11	1.50	43.11	
PERIOD		0.00017	ug/m^3	P-90	519369.46	4264234.43	43.11	1.50	43.11	
PERIOD		0.00017	ug/m^3	P-91	519370.67	4264229.59	43.11	1.50	43.11	
PERIOD		0.00017	ug/m^3	P-92	519371.88	4264220.18	43.40	1.50	43.40	
PERIOD		0.00016	ug/m^3	P-93	519371.88	4264215.60	43.50	1.50	43.50	
PERIOD		0.00016	ug/m^3	P-94	519371.88	4264211.03	43.59	1.50	43.59	
PERIOD		0.00016	ug/m^3	P-95	519371.88	4264206.46	43.68	1.50	43.68	
PERIOD		0.00016	ug/m^3	P-97	519371.88	4264197.31	43.80	1.50	43.80	
PERIOD		0.00015	ug/m^3	P-98	519371.88	4264192.74	43.69	1.50	43.69	
PERIOD		0.00015	ug/m^3	P-99	519371.88	4264188.17	43.58	1.50	43.58	
PERIOD		0.00015	ug/m^3	P-100	519371.88	4264183.59	43.47	1.50	43.47	
PERIOD		0.00015	ug/m^3	P-101	519366.91	4264179.07	43.32	1.50	43.32	
PERIOD		0.00016	ug/m^3	P-102	519361.94	4264179.11	43.28	1.50	43.28	
PERIOD		0.00016	ug/m^3	P-103	519356.98	4264179.16	43.22	1.50	43.22	
PERIOD		0.00016	ug/m^3	P-104	519352.01	4264179.20	43.14	1.50	43.14	
PERIOD		0.00017	ug/m^3	P-105	519347.04	4264179.25	43.05	1.50	43.05	
PERIOD		0.00017	ug/m^3	P-106	519342.07	4264179.29	42.96	1.50	42.96	
PERIOD		0.00017	ug/m^3	P-107	519337.11	4264179.34	42.88	1.50	42.88	
PERIOD		0.00017	ug/m^3	P-108	519332.14	4264179.38	42.80	1.50	42.80	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00018	ug/m^3	P-109	519327.17	4264179.43	42.75	1.50	42.75	
PERIOD		0.00018	ug/m^3	P-110	519322.20	4264179.47	42.70	1.50	42.70	
PERIOD		0.00018	ug/m^3	P-111	519317.24	4264179.52	42.64	1.50	42.64	
PERIOD		0.00019	ug/m^3	P-112	519312.27	4264179.56	42.59	1.50	42.59	
PERIOD		0.00019	ug/m^3	P-113	519307.30	4264179.61	42.52	1.50	42.52	
PERIOD		0.00020	ug/m^3	P-114	519302.33	4264179.65	42.45	1.50	42.45	
PERIOD		0.00020	ug/m^3	P-115	519297.37	4264179.70	42.38	1.50	42.38	
PERIOD		0.00020	ug/m^3	P-116	519292.40	4264179.74	42.31	1.50	42.31	
PERIOD		0.00021	ug/m^3	P-117	519287.43	4264179.79	42.24	1.50	42.24	
PERIOD		0.00021	ug/m^3	P-118	519282.46	4264179.83	42.19	1.50	42.19	
PERIOD		0.00022	ug/m^3	P-119	519277.50	4264179.88	42.14	1.50	42.14	
PERIOD		0.00022	ug/m^3	P-120	519272.53	4264179.92	42.09	1.50	42.09	
PERIOD		0.00023	ug/m^3	P-121	519267.56	4264179.97	42.05	1.50	42.05	
PERIOD		0.00023	ug/m^3	P-122	519262.59	4264180.01	42.00	1.50	42.00	
PERIOD		0.00024	ug/m^3	P-123	519257.63	4264180.06	42.01	1.50	42.01	
PERIOD		0.00024	ug/m^3	P-124	519252.66	4264180.11	42.04	1.50	42.04	
PERIOD		0.00025	ug/m^3	P-125	519245.35	4264184.50	42.07	1.50	42.07	
PERIOD		0.00026	ug/m^3	P-126	519243.01	4264188.85	42.07	1.50	42.07	
PERIOD		0.00026	ug/m^3	P-127	519240.67	4264193.20	42.06	1.50	42.06	
PERIOD		0.00027	ug/m^3	P-128	519238.32	4264197.55	42.05	1.50	42.05	

Sensitive Receptor Summary

C:\Lakes\AERMOD View\324900019 Shiloh Crossing\324900019 Shiloh Cros
MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00027	ug/m^3	P-129	519235.98	4264201.90	42.11	1.50	42.11	
PERIOD		0.00028	ug/m^3	P-130	519233.64	4264206.25	42.16	1.50	42.16	
PERIOD		0.00028	ug/m^3	P-131	519231.30	4264210.60	42.22	1.50	42.22	
PERIOD		0.00029	ug/m^3	P-132	519228.96	4264214.95	42.26	1.50	42.26	
PERIOD		0.00029	ug/m^3	P-133	519226.62	4264219.30	42.30	1.50	42.30	
PERIOD		0.00030	ug/m^3	P-134	519224.28	4264223.65	42.34	1.50	42.34	
PERIOD		0.00031	ug/m^3	P-135	519221.93	4264228.00	42.37	1.50	42.37	
PERIOD		0.00032	ug/m^3	P-136	519219.59	4264232.35	42.38	1.50	42.38	
PERIOD		0.00032	ug/m^3	P-137	519217.25	4264236.70	42.41	1.50	42.41	
PERIOD		0.00034	ug/m^3	P-139	519212.57	4264245.39	42.53	1.50	42.53	
PERIOD		0.00035	ug/m^3	P-140	519210.23	4264249.75	42.56	1.50	42.56	
PERIOD		0.00036	ug/m^3	P-141	519207.88	4264254.09	42.59	1.50	42.59	
PERIOD		0.00037	ug/m^3	P-142	519205.54	4264258.44	42.63	1.50	42.63	
PERIOD		0.00038	ug/m^3	P-143	519203.20	4264262.79	42.52	1.50	42.52	
PERIOD		0.00039	ug/m^3	P-144	519200.86	4264267.14	42.38	1.50	42.38	
PERIOD		0.00040	ug/m^3	P-145	519198.52	4264271.49	42.27	1.50	42.27	
PERIOD		0.00041	ug/m^3	P-146	519196.18	4264275.84	42.21	1.50	42.21	
PERIOD		0.00042	ug/m^3	P-147	519193.84	4264280.19	42.20	1.50	42.20	
PERIOD		0.00043	ug/m^3	P-148	519191.49	4264284.54	42.22	1.50	42.22	
PERIOD		0.00044	ug/m^3	P-149	519189.15	4264288.89	42.29	1.50	42.29	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00045	ug/m^3	P-150	519186.81	4264293.24	42.30	1.50	42.30	
PERIOD		0.00046	ug/m^3	P-151	519184.47	4264297.59	42.28	1.50	42.28	
PERIOD		0.00048	ug/m^3	P-152	519182.13	4264301.94	42.27	1.50	42.27	
PERIOD		0.00049	ug/m^3	P-153	519179.79	4264306.29	42.27	1.50	42.27	
PERIOD		0.00050	ug/m^3	P-154	519177.45	4264310.64	42.28	1.50	42.28	
PERIOD		0.00051	ug/m^3	P-155	519175.10	4264314.99	42.30	1.50	42.30	
PERIOD		0.00053	ug/m^3	P-156	519172.76	4264319.34	42.32	1.50	42.32	
PERIOD		0.00054	ug/m^3	P-157	519170.42	4264323.69	42.33	1.50	42.33	
PERIOD		0.00055	ug/m^3	P-158	519168.08	4264328.04	42.36	1.50	42.36	
PERIOD		0.00057	ug/m^3	P-159	519165.74	4264332.39	42.44	1.50	42.44	
PERIOD		0.00058	ug/m^3	P-160	519163.40	4264336.74	42.53	1.50	42.53	
PERIOD		0.00059	ug/m^3	P-161	519161.06	4264341.09	42.56	1.50	42.56	
PERIOD		0.00061	ug/m^3	P-162	519158.71	4264345.44	42.59	1.50	42.59	
PERIOD		0.00062	ug/m^3	P-163	519156.37	4264349.79	42.62	1.50	42.62	
PERIOD		0.00064	ug/m^3	P-164	519154.03	4264354.14	42.59	1.50	42.59	
PERIOD		0.00065	ug/m^3	P-165	519151.69	4264358.49	42.49	1.50	42.49	
PERIOD		0.00067	ug/m^3	P-166	519149.35	4264362.84	42.40	1.50	42.40	
PERIOD		0.00068	ug/m^3	P-167	519147.01	4264367.19	42.34	1.50	42.34	
PERIOD		0.00069	ug/m^3	P-168	519144.67	4264371.54	42.29	1.50	42.29	
PERIOD		0.00072	ug/m^3	P-170	519139.98	4264380.24	42.24	1.50	42.24	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00075	ug/m^3	P-172	519135.30	4264388.93	42.28	1.50	42.28	
PERIOD		0.00076	ug/m^3	P-173	519132.96	4264393.28	42.31	1.50	42.31	
PERIOD		0.00077	ug/m^3	P-174	519130.62	4264397.63	42.32	1.50	42.32	
PERIOD		0.00079	ug/m^3	P-175	519128.27	4264401.98	42.33	1.50	42.33	
PERIOD		0.00080	ug/m^3	P-176	519125.93	4264406.33	42.32	1.50	42.32	
PERIOD		0.00081	ug/m^3	P-177	519123.59	4264410.68	42.30	1.50	42.30	
PERIOD		0.00082	ug/m^3	P-178	519121.25	4264415.03	42.25	1.50	42.25	
PERIOD		0.00083	ug/m^3	P-179	519118.91	4264419.38	42.21	1.50	42.21	
PERIOD		0.00085	ug/m^3	P-180	519116.57	4264423.73	42.18	1.50	42.18	
PERIOD		0.00086	ug/m^3	P-181	519114.23	4264428.08	42.18	1.50	42.18	
PERIOD		0.00087	ug/m^3	P-182	519111.88	4264432.43	42.19	1.50	42.19	
PERIOD		0.00087	ug/m^3	P-183	519109.54	4264436.78	42.20	1.50	42.20	
PERIOD		0.00088	ug/m^3	P-184	519107.20	4264441.13	42.20	1.50	42.20	
PERIOD		0.00700	ug/m^3	Res-1	518717.99	4264519.28	38.06	1.50	38.06	
PERIOD		0.00752	ug/m^3	Res-2	518763.40	4264515.69	38.52	1.50	38.52	
PERIOD		0.00595	ug/m^3	Res-3	518815.39	4264517.49	39.04	1.50	39.04	
PERIOD		0.00867	ug/m^3	Res-4	518831.14	4264458.58	39.06	1.50	39.06	
PERIOD		0.01461	ug/m^3	Res-5	518833.50	4264407.64	39.04	1.50	39.04	
PERIOD		0.01933	ug/m^3	Res-6	518833.80	4264372.46	38.98	1.50	38.98	
PERIOD		0.02266	ug/m^3	Res-7	518830.61	4264357.36	38.77	1.50	38.77	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.02618	ug/m^3	Res-8	518829.49	4264302.88	38.69	1.50	38.69	
PERIOD		0.01922	ug/m^3	Res-9	518838.53	4264286.07	38.77	1.50	38.77	
PERIOD		0.02688	ug/m^3	Res-10	518828.41	4264282.81	38.60	1.50	38.60	
PERIOD		0.01386	ug/m^3	Res-11	518839.89	4264214.34	38.48	1.50	38.48	
PERIOD		0.00669	ug/m^3	Res-12	518865.16	4264196.74	38.58	1.50	38.58	
PERIOD		0.00652	ug/m^3	Res-13	518877.96	4264238.55	38.90	1.50	38.90	
PERIOD		0.00584	ug/m^3	Res-14	518875.09	4264206.15	38.73	1.50	38.73	
PERIOD		0.00968	ug/m^3	Res-15	518856.67	4264226.79	38.72	1.50	38.72	
PERIOD		0.00705	ug/m^3	Res-16	518877.61	4264258.86	38.89	1.50	38.89	
PERIOD		0.01053	ug/m^3	Res-17	518857.97	4264259.52	38.86	1.50	38.86	
PERIOD		0.00784	ug/m^3	Res-18	518874.43	4264296.83	39.22	1.50	39.22	
PERIOD		0.00582	ug/m^3	Res-19	518891.98	4264304.70	39.22	1.50	39.22	
PERIOD		0.00328	ug/m^3	Res-21	518936.25	4264331.91	39.90	1.50	39.90	
PERIOD		0.00369	ug/m^3	Res-22	518905.03	4264205.43	38.97	1.50	38.97	
PERIOD		0.00269	ug/m^3	Res-23	518930.62	4264196.94	39.14	1.50	39.14	
PERIOD		0.00202	ug/m^3	Res-24	518959.79	4264196.75	39.38	1.50	39.38	
PERIOD		0.00286	ug/m^3	Res-25	518926.37	4264211.00	39.21	1.50	39.21	
PERIOD		0.00271	ug/m^3	Res-26	518956.06	4264354.52	40.23	1.50	40.23	
PERIOD		0.00236	ug/m^3	Res-27	518969.83	4264354.02	40.67	1.50	40.67	
PERIOD		0.00210	ug/m^3	Res-28	518982.85	4264353.77	40.74	1.50	40.74	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00277	ug/m^3	Res-29	518954.56	4264381.31	40.14	1.50	40.14	
PERIOD		0.00239	ug/m^3	Res-30	518969.83	4264380.56	40.71	1.50	40.71	
PERIOD		0.00213	ug/m^3	Res-31	518982.60	4264382.06	40.73	1.50	40.73	
PERIOD		0.00252	ug/m^3	Res-32	518959.07	4264430.88	40.00	1.50	40.00	
PERIOD		0.00225	ug/m^3	Res-33	518972.33	4264430.88	40.02	1.50	40.02	
PERIOD		0.00204	ug/m^3	Res-34	518984.10	4264431.63	40.21	1.50	40.21	
PERIOD		0.00150	ug/m^3	Res-35	519011.29	4264478.60	40.90	1.50	40.90	
PERIOD		0.00200	ug/m^3	Res-36	518941.30	4264143.93	38.99	1.50	38.99	
PERIOD		0.00147	ug/m^3	Res-37	518973.01	4264142.65	39.30	1.50	39.30	
PERIOD		0.00121	ug/m^3	Res-38	518995.57	4264144.57	39.50	1.50	39.50	
PERIOD		0.00106	ug/m^3	Res-39	519013.03	4264146.48	39.63	1.50	39.63	
PERIOD		0.00084	ug/m^3	Res-40	519046.66	4264147.33	39.91	1.50	39.91	
PERIOD		0.00181	ug/m^3	Res-41	518948.67	4264129.70	39.06	1.50	39.06	
PERIOD		0.00129	ug/m^3	Res-42	518983.72	4264117.03	39.27	1.50	39.27	
PERIOD		0.00515	ug/m^3	Res-43	518659.95	4264515.73	37.58	1.50	37.58	
PERIOD		0.00420	ug/m^3	Res-44	518635.37	4264517.30	37.38	1.50	37.38	
PERIOD		0.00351	ug/m^3	Res-45	518614.71	4264516.12	37.41	1.50	37.41	
PERIOD		0.00283	ug/m^3	Res-46	518591.37	4264510.74	37.49	1.50	37.49	
PERIOD		0.00220	ug/m^3	Res-47	518566.90	4264509.51	37.43	1.50	37.43	
PERIOD		0.00242	ug/m^3	Res-48	518586.07	4264558.86	37.69	1.50	37.69	

Sensitive Receptor Summary

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MITIGATED Project Construction

PM2.5 - Concentration - Source Group: ALL

Averaging Period	Rank	Peak	Units	Receptor ID	X (m)	Y (m)	ZELEV (m)	ZFLAG (m)	ZHILL (m)	Peak Date, Start Hour
PERIOD		0.00218	ug/m^3	Res-50	518581.59	4264583.74	37.76	1.50	37.76	
PERIOD		0.00258	ug/m^3	Res-51	518607.69	4264584.96	37.85	1.50	37.85	
PERIOD		0.00381	ug/m^3	Res-52	518659.48	4264565.79	37.98	1.50	37.98	
PERIOD		0.00368	ug/m^3	Res-53	518681.91	4264589.45	38.41	1.50	38.41	
PERIOD		0.00443	ug/m^3	Res-54	518704.75	4264573.13	38.53	1.50	38.53	
PERIOD		0.00328	ug/m^3	Res-55	518707.19	4264622.07	38.61	1.50	38.61	
PERIOD		0.00297	ug/m^3	Res-56	518661.93	4264613.92	37.99	1.50	37.99	
PERIOD		0.00318	ug/m^3	Res-57	518680.28	4264613.51	38.56	1.50	38.56	
PERIOD		0.00346	ug/m^3	Res-58	518683.54	4264600.46	38.52	1.50	38.52	
PERIOD		0.00368	ug/m^3	Res-59	518747.16	4264612.28	38.91	1.50	38.91	
PERIOD		0.00502	ug/m^3	Res-60	518757.76	4264565.79	38.95	1.50	38.95	
PERIOD		0.00432	ug/m^3	Res-61	518786.72	4264579.25	39.16	1.50	39.16	
PERIOD		0.00439	ug/m^3	Res-62	518809.15	4264563.35	39.35	1.50	39.35	
PERIOD		0.00321	ug/m^3	Res-63	518856.45	4264564.98	39.58	1.50	39.58	
PERIOD		0.00267	ug/m^3	Res-64	518870.73	4264580.07	39.69	1.50	39.69	
PERIOD		0.00239	ug/m^3	Res-65	518900.09	4264559.27	39.86	1.50	39.86	
PERIOD		0.00191	ug/m^3	Res-66	518925.38	4264572.32	40.16	1.50	40.16	
PERIOD		0.00168	ug/m^3	Res-67	518947.80	4264569.06	40.89	1.50	40.89	
PERIOD		0.00288	ug/m^3	Res-68	518829.13	4264617.18	39.36	1.50	39.36	
PERIOD		0.00158	ug/m^3	Res-69	518923.74	4264621.26	40.17	1.50	40.17	

Sensitive Receptor Summary

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MITIGATED Project Construction

PROJECT TITLE:

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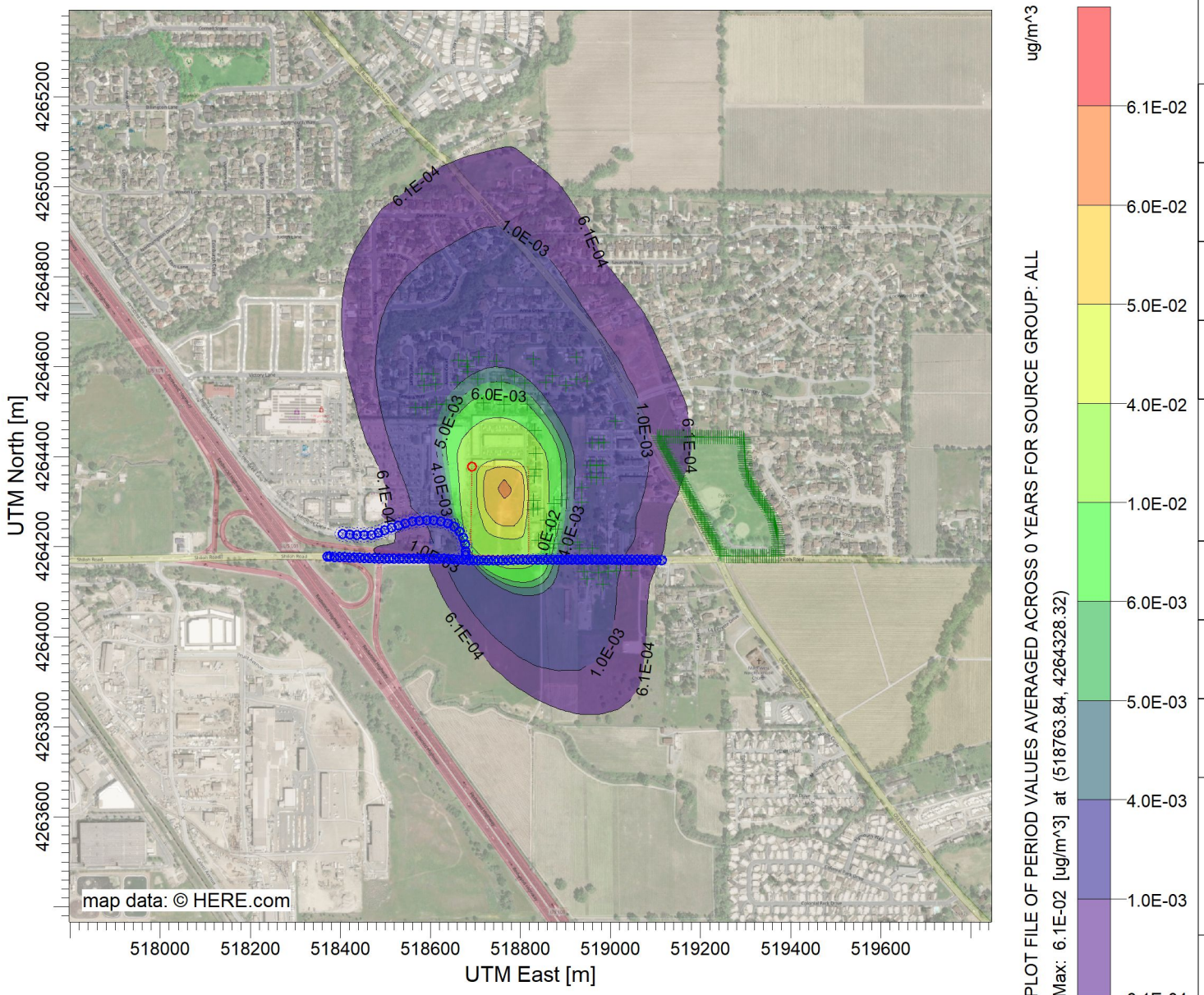
MITIGATED Project Construction



COMMENTS:

SOURCES:
3

RECEPTORS:
2308

OUTPUT TYPE:
Concentration

MAX:
6.1E-02 ug/m^3

COMPANY NAME:

MODELER:

DATE:
6/15/2022

SCALE: 1:13,794
0 0.4 km

PROJECT NO.:

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