

841 Patricia Drive Project - San Luis Obispo County, Annual

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

**841 Patricia Drive Project
San Luis Obispo County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.71	4,941.00	3
Single Family Housing	1.00	Dwelling Unit	0.71	825.00	3

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4	Operational Year	2024		
Utility Company	User Defined				

CO2 Intensity (lb/MWhr)	157.75	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
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1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor for Central Coast Clean Energy year 2028
CH4 and N2O are PG&E defaults

Land Use - One 4,941-sf residence and an 825-sf ADU on a 1.41-acre parcel

Construction Phase - Construction will last 18-24 months
24 months has been conservatively assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

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Off-road Equipment -
 Off-road Equipment -
 Demolition - On-site shed is estimated to be: 15' wide x 12' deep x 10' high
 Demolition is conservatively assumed as it is only an option

Grading - Approx 1,932 cubic yards (cy) of cut and 650 cy of fill for a total of 1,280 cy of earthwork.
 Disturb 35,000 sf (0.8 acre), however, CalEEMod defaults for graded acres during site prep and grading were assumed.

Table Name	Column Name	Default Value	New Value
tbConstructionPhase	NumDays	20.00	40.00
tbConstructionPhase	NumDays	2.00	20.00
tbConstructionPhase	NumDays	4.00	20.00
tbConstructionPhase	NumDays	200.00	595.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbGrading	MaterialExported	0.00	1,280.00
tblLandUse	LandUseSquareFeet	1,800.00	4,941.00
tblLandUse	LandUseSquareFeet	1,800.00	825.00
tblLandUse	LotAcreage	0.32	0.71
tblLandUse	LotAcreage	0.32	0.71
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	157.75
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

CalEEMod Version: CalEEMod:2020.4.0

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2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

Year	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
tons/yr																
2022	0.2558	2.1167	1.9374	3.5200e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	295.3860	295.3860	0.0585	9.4000e-004	297.1288
2023	0.3459	1.9786	2.1906	3.8000e-003	4.0000e-003	0.0879	0.0919	1.0600e-003	0.0846	0.0857	0.0000	315.0194	315.0194	0.0560	9.0000e-005	316.4448
2024	0.0363	0.2822	0.3198	5.6000e-004	2.5000e-004	0.0115	0.0117	7.0000e-005	0.0111	0.0112	0.0000	46.4934	46.4934	7.7200e-003	1.0000e-005	46.6878
Maximum	0.3459	2.1167	2.1906	3.8000e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	315.0194	315.0194	0.0585	9.4000e-004	316.4448

Mitigated Construction

Year	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
tons/yr																
2022	0.2558	2.1167	1.9374	3.5200e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	295.3857	295.3857	0.0585	9.4000e-004	297.1285
2023	0.3459	1.9786	2.1906	3.8000e-003	4.0000e-003	0.0879	0.0919	1.0600e-003	0.0846	0.0857	0.0000	315.0191	315.0191	0.0560	9.0000e-005	316.4444
2024	0.0363	0.2822	0.3198	5.6000e-004	2.5000e-004	0.0115	0.0117	7.0000e-005	0.0111	0.0112	0.0000	46.4933	46.4933	7.7200e-003	1.0000e-005	46.6877
Maximum	0.3459	2.1167	2.1906	3.8000e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	315.0191	315.0191	0.0585	9.4000e-004	316.4444

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2.2 Overall Operational
Unmitigated Operational

Category	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
tons/yr																
Area	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Energy	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	3.9631	3.9631	2.9000e-004	8.0000e-005	3.9943
Mobile	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	0.0710	0.1124	4.2600e-003	1.0000e-004	0.2493
Total	0.0462	0.0253	0.1655	3.0000e-004	0.0293	6.2000e-004	0.0299	7.8400e-003	6.0000e-004	8.4400e-003	0.5407	30.1193	30.6600	0.0357	1.4700e-003	31.9897
MT/yr																

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2.2 Overall Operational

Mitigated Operational

Category	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
tons/yr																
Area	0.0324	3.1000e-004	0.0272	0.0000	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Energy	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	3.9631	3.9631	2.9000e-004	8.0000e-005	3.9943
Mobile	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	0.0710	0.1124	4.2600e-003	1.0000e-004	0.2493
Total	0.0462	0.0253	0.1655	3.0000e-004	0.0293	6.2000e-004	0.0299	7.8400e-003	6.0000e-004	8.4400e-003	0.5407	30.1193	30.6600	0.0357	1.4700e-003	31.9897

Percent Reduction	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
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	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	Demolition	Demolition	3/1/2022	4/15/2022	6	40	
2	Site Preparation	Site Preparation	3/29/2022	4/20/2022	6	20	
3	Grading	Grading	3/31/2022	4/22/2022	6	20	

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4	Building Construction	Building Construction	4/6/2022	2/28/2024	6	595
5	Paving	Paving	1/1/2023	2/25/2023	6	40
6	Architectural Coating	Architectural Coating	1/25/2023	3/1/2023	6	40

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 11,676; Residential Outdoor: 3,892; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Demolition	5	13.00	0.00	1.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	160.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

Category	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
tons/yr											MT/yr					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004	0.0168	0.0168	0.0168	0.0157	0.0157	0.0157	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	0.0168	0.0168	0.0169	1.0000e-005	0.0157	0.0157	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	0.0000	1.0000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0320	0.0320	0.0000	1.0000e-005	0.0335
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	8.8000e-004	6.8000e-004	7.4400e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9809	1.9809	6.0000e-005	6.0000e-005	2.0002
Total	8.8000e-004	7.8000e-004	7.4600e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5300e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0129	2.0129	6.0000e-005	7.0000e-005	2.0337
	MT/yr															

Mitigated Construction On-Site

Category	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
	tons/yr															
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	9.0000e-005	0.0168	0.0169	1.0000e-005	0.0157	0.0157	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239
	MT/yr															

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3.2 Demolition - 2022

Mitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	0.0000	1.0000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0320	0.0320	0.0000	1.0000e-005	0.0335
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	8.8000e-004	6.8000e-004	7.4400e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9809	1.9809	6.0000e-005	6.0000e-005	2.0002
Total	8.8000e-004	7.8000e-004	7.4600e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5300e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0129	2.0129	6.0000e-005	7.0000e-005	2.0337
	MT/yr															

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

Category	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
	tons/yr															
Fugitive Dust					0.0626	0.0000	0.0626	0.0300	0.0000	0.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004	6.2300e-003	6.2300e-003	6.2300e-003	5.7300e-003	5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0626	6.2300e-003	0.0689	0.0300	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
	MT/yr															

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

Category	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
tons/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	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
Total	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					0.0626	0.0000	0.0626	0.0300	0.0000	0.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004	6.2300e-003	6.2300e-003	6.2300e-003	5.7300e-003	5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0626	6.2300e-003	0.0689	0.0300	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
MT/yr																

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

Category	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
tons/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	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
Total	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
MT/yr																

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					0.0709	0.0000	0.0709	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004	7.4200e-003	7.4200e-003	7.4200e-003	6.8300e-003	6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0709	7.4200e-003	0.0784	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
MT/yr																

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

3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	3.8000e-004	0.0163	2.8500e-003	5.0000e-005	1.3700e-003	1.4000e-004	1.5100e-003	3.8000e-004	1.4000e-004	5.1000e-004	0.0000	5.1154	5.1154	1.7000e-004	8.1000e-004	5.3612
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	3.4000e-004	2.6000e-004	2.8600e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7693
Total	7.2000e-004	0.0165	5.7100e-003	6.0000e-005	2.3300e-003	1.4000e-004	2.4800e-003	6.4000e-004	1.4000e-004	7.7000e-004	0.0000	5.8773	5.8773	1.9000e-004	8.3000e-004	6.1305
	MT/yr															

Mitigated Construction On-Site

Category	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
	tons/yr															
Fugitive Dust					0.0709	0.0000	0.0709	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004	7.4200e-003	7.4200e-003	7.4200e-003	6.8300e-003	6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0709	7.4200e-003	0.0784	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
	MT/yr															

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

3.4 Grading - 2022

Mitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	3.8000e-004	0.0163	2.8500e-003	5.0000e-005	1.3700e-003	1.4000e-004	1.5100e-003	3.8000e-004	1.4000e-004	5.1000e-004	0.0000	5.1154	5.1154	1.7000e-004	8.1000e-004	5.3612
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	3.4000e-004	2.6000e-004	2.8600e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7693
Total	7.2000e-004	0.0165	5.7100e-003	6.0000e-005	2.3300e-003	1.4000e-004	2.4800e-003	6.4000e-004	1.4000e-004	7.7000e-004	0.0000	5.8773	5.8773	1.9000e-004	8.3000e-004	6.1305
	MT/yr															

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	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
	tons/yr															
Off-Road	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6292	210.6292	0.0367	0.0000	211.5464
Total	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6292	210.6292	0.0367	0.0000	211.5464
	MT/yr															

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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 Building Construction - 2022

Unmitigated Construction Off-Site

Category	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
tons/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	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
Total	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6290	210.6290	0.0367	0.0000	211.5461
Total	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6290	210.6290	0.0367	0.0000	211.5461
MT/yr																

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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 Building Construction - 2022

Mitigated Construction Off-Site

Category	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
	tons/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	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
Total	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	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
	tons/yr															
Off-Road	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2946	283.2946	0.0481	0.0000	284.4973
Total	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2946	283.2946	0.0481	0.0000	284.4973

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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 Building Construction - 2023

Unmitigated Construction Off-Site

Category	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
tons/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	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
Total	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2943	283.2943	0.0481	0.0000	284.4970
Total	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2943	283.2943	0.0481	0.0000	284.4970
MT/yr																

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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 Building Construction - 2023

Mitigated Construction Off-Site

Category	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
tons/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	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
Total	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
MT/yr																

3.5 Building Construction - 2024

Unmitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0362	0.2821	0.3192	5.6000e-004	0.0115	0.0115	0.0115	0.0111	0.0111	0.0111	0.0000	46.3109	46.3109	7.7100e-003	0.0000	46.5037
Total	0.0362	0.2821	0.3192	5.6000e-004	0.0115	0.0115	0.0115	0.0111	0.0111	0.0111	0.0000	46.3109	46.3109	7.7100e-003	0.0000	46.5037
MT/yr																

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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 Building Construction - 2024

Unmitigated Construction Off-Site

Category	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
tons/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	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
Total	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3108	46.3108	7.7100e-003	0.0000	46.5036
Total	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3108	46.3108	7.7100e-003	0.0000	46.5036
MT/yr																

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

3.5 Building Construction - 2024

Mitigated Construction Off-Site

Category	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
tons/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	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
Total	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
MT/yr																

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5449	23.5449	7.4600e-003	0.0000	23.7315
Paving	0.0000	0.0000	0.0000	0.0000	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	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5449	23.5449	7.4600e-003	0.0000	23.7315
MT/yr																

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	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
tons/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	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
Total	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5448	23.5448	7.4600e-003	0.0000	23.7314
Paving	0.0000	0.0000	0.0000	0.0000	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	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5448	23.5448	7.4600e-003	0.0000	23.7314
MT/yr																

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

3.6 Paving - 2023

Mitigated Construction Off-Site

Category	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
	tons/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	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
Total	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
	MT/yr															

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	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
	tons/yr															
Archit. Coating	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142
Total	0.0940	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142
	MT/yr															

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

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

Category	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
tons/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
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Archit. Coating	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141
Total	0.0940	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141
MT/yr																

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3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	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
tons/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

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

ATTACHMENT 2

Category	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
	tons/yr															
Mitigated	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Unmitigated	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
	MT/yr															

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Total	18.88	19.08	17.10	78,362	78,362

4.3 Trip Type Information

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	Miles		Trip %		Trip Purpose %		
							13.00	13.00	35.80	21.00	43.20	86	11
Single Family Housing	13.00	13.00	13.00	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	
Single Family Housing	13.00	13.00	13.00	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.486418	0.056693	0.203223	0.148945	0.038507	0.009459	0.008260	0.005996	0.000952	0.000366	0.033245	0.001002	0.006934

5.0 Energy Detail

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

Category	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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1210	1.1210	2.3000e-004	3.0000e-005	1.1353
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.1210	1.1210	2.3000e-004	3.0000e-005	1.1353
NaturalGas Mitigated	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
NaturalGas Unmitigated	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

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5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
Single Family Housing	26629.5	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
Total		2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

Mitigated

Land Use	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
Single Family Housing	26629.5	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
Total		2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

ATTACHMENT 2

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

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use KWh/yr	Total CO2	CH4	N2O	CO2e
Single Family Housing	7833.22	1.1210	2.3000e-004	3.0000e-005	1.1353
Total		1.1210	2.3000e-004	3.0000e-005	1.1353

Mitigated

Land Use	Electricity Use KWh/yr	Total CO2	CH4	N2O	CO2e
Single Family Housing	7833.22	1.1210	2.3000e-004	3.0000e-005	1.1353
Total		1.1210	2.3000e-004	3.0000e-005	1.1353

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	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
	tons/yr															
Mitigated	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Unmitigated	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
	MT/yr															

6.2 Area by SubCategory

Unmitigated

SubCategory	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
	tons/yr															
Architectural Coating	9.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0225					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	8.2000e-004	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
	MT/yr															
Total	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455

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

6.2 Area by SubCategory

Mitigated

SubCategory	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
tons/yr																
MT/yr																
Architectural Coating	9.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0225					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	8.2000e-004	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Total	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455

7.0 Water Detail

7.1 Mitigation Measures Water

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

Category	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1124	4.2600e-003	1.0000e-004	0.2493
Unmitigated	0.1124	4.2600e-003	1.0000e-004	0.2493

7.2 Water by Land Use
Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	0.1124	4.2600e-003	1.0000e-004	0.2493
Total		0.1124	4.2600e-003	1.0000e-004	0.2493

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

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	0.1124	4.2600e-003	1.0000e-004	0.2493
Total		0.1124	4.2600e-003	1.0000e-004	0.2493

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4994	0.0295	0.0000	1.2371
Unmitigated	0.4994	0.0295	0.0000	1.2371

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

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		0.4994	0.0295	0.0000	1.2371

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		0.4994	0.0295	0.0000	1.2371

9.0 Operational Offroad

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

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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
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.71	4,941.00	3
Single Family Housing	1.00	Dwelling Unit	0.71	825.00	3

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4	Operational Year	2024		
Utility Company	User Defined				

CO2 Intensity (lb/MWhr)	446.53	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
-------------------------	--------	-------------------------	-------	-------------------------	-------

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor for Central Coast Clean Energy year 2024
CH4 and N2O are PG&E defaults

Land Use - One 4,941-sf residence and an 825-sf ADU on a 1.41-acre parcel

Construction Phase - Construction will last 18-24 months
24 months has been conservatively assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

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

Off-road Equipment -

Off-road Equipment -

Demolition - On-site shed is estimated to be: 15' wide x 12' deep x 10' high
Demolition is conservatively assumed as it is only an option

Grading - Approx 1,932 cubic yards (cy) of cut and 650 cy of fill for a total of 1,280 cy of earthwork.
Disturb 35,000 sf (0.8 acre), however, CalEEMod defaults for graded acres during site prep and grading were assumed.

Table Name	Column Name	Default Value	New Value
tbConstructionPhase	NumDays	20.00	40.00
tbConstructionPhase	NumDays	2.00	20.00
tbConstructionPhase	NumDays	4.00	20.00
tbConstructionPhase	NumDays	200.00	595.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	MaterialExported	0.00	1,280.00
tblLandUse	LandUseSquareFeet	1,800.00	4,941.00
tblLandUse	LandUseSquareFeet	1,800.00	825.00
tblLandUse	LotAcreage	0.32	0.71
tblLandUse	LotAcreage	0.32	0.71
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	446.53
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

CalEEMod Version: CalEEMod:2020.4.0

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2.0 Emissions Summary

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

2.1 Overall Construction

Unmitigated Construction

Year	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
tons/yr																
2022	0.2558	2.1167	1.9374	3.5200e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	295.3860	295.3860	0.0585	9.4000e-004	297.1288
2023	0.3459	1.9786	2.1906	3.8000e-003	4.0000e-003	0.0879	0.0919	1.0600e-003	0.0846	0.0857	0.0000	315.0194	315.0194	0.0560	9.0000e-005	316.4448
2024	0.0363	0.2822	0.3198	5.6000e-004	2.5000e-004	0.0115	0.0117	7.0000e-005	0.0111	0.0112	0.0000	46.4934	46.4934	7.7200e-003	1.0000e-005	46.6878
Maximum	0.3459	2.1167	2.1906	3.8000e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	315.0194	315.0194	0.0585	9.4000e-004	316.4448
MT/yr																

Mitigated Construction

Year	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
tons/yr																
2022	0.2558	2.1167	1.9374	3.5200e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	295.3857	295.3857	0.0585	9.4000e-004	297.1285
2023	0.3459	1.9786	2.1906	3.8000e-003	4.0000e-003	0.0879	0.0919	1.0600e-003	0.0846	0.0857	0.0000	315.0191	315.0191	0.0560	9.0000e-005	316.4444
2024	0.0363	0.2822	0.3198	5.6000e-004	2.5000e-004	0.0115	0.0117	7.0000e-005	0.0111	0.0112	0.0000	46.4933	46.4933	7.7200e-003	1.0000e-005	46.6877
Maximum	0.3459	2.1167	2.1906	3.8000e-003	0.1404	0.0989	0.2393	0.0661	0.0944	0.1605	0.0000	315.0191	315.0191	0.0585	9.4000e-004	316.4444
MT/yr																

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2.2 Overall Operational

Unmitigated Operational

Category	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
tons/yr																
Area	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Energy	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	6.0152	6.0152	2.9000e-004	8.0000e-005	6.0465
Mobile	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	0.2011	0.2424	4.2600e-003	1.0000e-004	0.3793
Total	0.0462	0.0253	0.1655	3.0000e-004	0.0293	6.2000e-004	0.0299	7.8400e-003	6.0000e-004	8.4400e-003	0.5407	32.3014	32.8421	0.0357	1.4700e-003	34.1718
MT/yr																

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

2.2 Overall Operational

Mitigated Operational

Category	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
tons/yr																
Area	0.0324	3.1000e-004	0.0272	0.0000	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Energy	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	6.0152	6.0152	2.9000e-004	8.0000e-005	6.0465
Mobile	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Waste						0.0000	0.0000		0.0000	0.0000	0.4994	0.0000	0.4994	0.0295	0.0000	1.2371
Water						0.0000	0.0000		0.0000	0.0000	0.0413	0.2011	0.2424	4.2600e-003	1.0000e-004	0.3793
Total	0.0462	0.0253	0.1655	3.0000e-004	0.0293	6.2000e-004	0.0299	7.8400e-003	6.0000e-004	8.4400e-003	0.5407	32.3014	32.8421	0.0357	1.4700e-003	34.1718
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	Demolition	Demolition	3/1/2022	4/15/2022	6	40	
2	Site Preparation	Site Preparation	3/29/2022	4/20/2022	6	20	
3	Grading	Grading	3/31/2022	4/22/2022	6	20	

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

4	Building Construction	Building Construction	4/6/2022	2/28/2024	6	595
5	Paving	Paving	1/1/2023	2/25/2023	6	40
6	Architectural Coating	Architectural Coating	1/25/2023	3/1/2023	6	40

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 11,676; Residential Outdoor: 3,892; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36

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Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Demolition	5	13.00	0.00	1.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	160.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2022

Unmitigated Construction On-Site

Category	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
tons/yr											MT/yr					
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004	0.0168	0.0168	0.0168	0.0157	0.0157	0.0157	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	0.0168	0.0168	0.0169	1.0000e-005	0.0157	0.0157	0.0000	42.1554	42.1554	0.0107	0.0000	42.4239

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3.2 Demolition - 2022

Unmitigated Construction Off-Site

Category	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
tons/yr																
Hauling	0.0000	1.0000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0320	0.0320	0.0000	1.0000e-005	0.0335
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	8.8000e-004	6.8000e-004	7.4400e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9809	1.9809	6.0000e-005	6.0000e-005	2.0002
Total	8.8000e-004	7.8000e-004	7.4600e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5300e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0129	2.0129	6.0000e-005	7.0000e-005	2.0337
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					9.0000e-005	0.0000	9.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0338	0.3324	0.2792	4.8000e-004		0.0168	0.0168		0.0157	0.0157	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239
Total	0.0338	0.3324	0.2792	4.8000e-004	9.0000e-005	0.0168	0.0169	1.0000e-005	0.0157	0.0157	0.0000	42.1553	42.1553	0.0107	0.0000	42.4239
MT/yr																

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3.2 Demolition - 2022

Mitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	0.0000	1.0000e-004	2.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0320	0.0320	0.0000	1.0000e-005	0.0335
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	8.8000e-004	6.8000e-004	7.4400e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9809	1.9809	6.0000e-005	6.0000e-005	2.0002
Total	8.8000e-004	7.8000e-004	7.4600e-003	2.0000e-005	2.5100e-003	1.0000e-005	2.5300e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	2.0129	2.0129	6.0000e-005	7.0000e-005	2.0337
	MT/yr															

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

Category	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
	tons/yr															
Fugitive Dust					0.0626	0.0000	0.0626	0.0300	0.0000	0.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004	6.2300e-003	6.2300e-003	6.2300e-003	5.7300e-003	5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0626	6.2300e-003	0.0689	0.0300	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
	MT/yr															

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3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

Category	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
tons/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	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
Total	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					0.0626	0.0000	0.0626	0.0300	0.0000	0.0300	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.1463	0.0709	1.7000e-004	6.2300e-003	6.2300e-003	6.2300e-003	5.7300e-003	5.7300e-003	5.7300e-003	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
Total	0.0131	0.1463	0.0709	1.7000e-004	0.0626	6.2300e-003	0.0689	0.0300	5.7300e-003	0.0358	0.0000	15.1153	15.1153	4.8900e-003	0.0000	15.2375
MT/yr																

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3.3 Site Preparation - 2022

Mitigated Construction Off-Site

Category	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
tons/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	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
Total	2.7000e-004	2.1000e-004	2.2900e-003	1.0000e-005	7.7000e-004	0.0000	7.7000e-004	2.0000e-004	0.0000	2.1000e-004	0.0000	0.6095	0.6095	2.0000e-005	2.0000e-005	0.6154
MT/yr																

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	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
tons/yr																
Fugitive Dust					0.0709	0.0000	0.0709	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004	7.4200e-003	7.4200e-003	7.4200e-003	6.8300e-003	6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0709	7.4200e-003	0.0784	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
MT/yr																

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3.4 Grading - 2022

Unmitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	3.8000e-004	0.0163	2.8500e-003	5.0000e-005	1.3700e-003	1.4000e-004	1.5100e-003	3.8000e-004	1.4000e-004	5.1000e-004	0.0000	5.1154	5.1154	1.7000e-004	8.1000e-004	5.3612
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	3.4000e-004	2.6000e-004	2.8600e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7693
Total	7.2000e-004	0.0165	5.7100e-003	6.0000e-005	2.3300e-003	1.4000e-004	2.4800e-003	6.4000e-004	1.4000e-004	7.7000e-004	0.0000	5.8773	5.8773	1.9000e-004	8.3000e-004	6.1305
	MT/yr															

Mitigated Construction On-Site

Category	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
	tons/yr															
Fugitive Dust					0.0709	0.0000	0.0709	0.0343	0.0000	0.0343	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0154	0.1698	0.0922	2.1000e-004	7.4200e-003	7.4200e-003	7.4200e-003	6.8300e-003	6.8300e-003	6.8300e-003	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
Total	0.0154	0.1698	0.0922	2.1000e-004	0.0709	7.4200e-003	0.0784	0.0343	6.8300e-003	0.0411	0.0000	18.1027	18.1027	5.8500e-003	0.0000	18.2491
	MT/yr															

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3.4 Grading - 2022

Mitigated Construction Off-Site

Category	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
	tons/yr															
Hauling	3.8000e-004	0.0163	2.8500e-003	5.0000e-005	1.3700e-003	1.4000e-004	1.5100e-003	3.8000e-004	1.4000e-004	5.1000e-004	0.0000	5.1154	5.1154	1.7000e-004	8.1000e-004	5.3612
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	3.4000e-004	2.6000e-004	2.8600e-003	1.0000e-005	9.6000e-004	0.0000	9.7000e-004	2.6000e-004	0.0000	2.6000e-004	0.0000	0.7619	0.7619	2.0000e-005	2.0000e-005	0.7693
Total	7.2000e-004	0.0165	5.7100e-003	6.0000e-005	2.3300e-003	1.4000e-004	2.4800e-003	6.4000e-004	1.4000e-004	7.7000e-004	0.0000	5.8773	5.8773	1.9000e-004	8.3000e-004	6.1305
	MT/yr															

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	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
	tons/yr															
Off-Road	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6292	210.6292	0.0367	0.0000	211.5464
Total	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6292	210.6292	0.0367	0.0000	211.5464
	MT/yr															

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

Category	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
tons/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	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
Total	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6290	210.6290	0.0367	0.0000	211.5461
Total	0.1912	1.4504	1.4763	2.5600e-003		0.0683	0.0683		0.0660	0.0660	0.0000	210.6290	210.6290	0.0367	0.0000	211.5461
MT/yr																

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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 Building Construction - 2022

Mitigated Construction Off-Site

Category	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
tons/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	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
Total	3.9000e-004	3.0000e-004	3.3200e-003	1.0000e-005	1.1200e-003	1.0000e-005	1.1200e-003	3.0000e-004	1.0000e-005	3.0000e-004	0.0000	0.8838	0.8838	3.0000e-005	3.0000e-005	0.8924
MT/yr																

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2946	283.2946	0.0481	0.0000	284.4973
Total	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2946	283.2946	0.0481	0.0000	284.4973
MT/yr																

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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 Building Construction - 2023

Unmitigated Construction Off-Site

Category	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
tons/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	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
Total	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2943	283.2943	0.0481	0.0000	284.4970
Total	0.2376	1.8268	1.9673	3.4400e-003		0.0803	0.0803		0.0775	0.0775	0.0000	283.2943	283.2943	0.0481	0.0000	284.4970
MT/yr																

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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 Building Construction - 2023

Mitigated Construction Off-Site

Category	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
tons/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	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
Total	5.0000e-004	3.6000e-004	4.1200e-003	1.0000e-005	1.5000e-003	1.0000e-005	1.5100e-003	4.0000e-004	1.0000e-005	4.1000e-004	0.0000	1.1525	1.1525	3.0000e-005	3.0000e-005	1.1632
MT/yr																

3.5 Building Construction - 2024

Unmitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3109	46.3109	7.7100e-003	0.0000	46.5037
Total	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3109	46.3109	7.7100e-003	0.0000	46.5037
MT/yr																

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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 Building Construction - 2024

Unmitigated Construction Off-Site

Category	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
tons/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	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
Total	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3108	46.3108	7.7100e-003	0.0000	46.5036
Total	0.0362	0.2821	0.3192	5.6000e-004		0.0115	0.0115		0.0111	0.0111	0.0000	46.3108	46.3108	7.7100e-003	0.0000	46.5036
MT/yr																

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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 Building Construction - 2024

Mitigated Construction Off-Site

Category	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
tons/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	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
Total	8.0000e-005	5.0000e-005	6.3000e-004	0.0000	2.5000e-004	0.0000	2.5000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.1825	0.1825	0.0000	1.0000e-005	0.1841
MT/yr																

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5449	23.5449	7.4600e-003	0.0000	23.7315
Paving	0.0000	0.0000	0.0000	0.0000	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	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5449	23.5449	7.4600e-003	0.0000	23.7315
MT/yr																

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

3.6 Paving - 2023

Unmitigated Construction Off-Site

Category	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
tons/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	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
Total	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Off-Road	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5448	23.5448	7.4600e-003	0.0000	23.7314
Paving	0.0000	0.0000	0.0000	0.0000	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	0.0129	0.1247	0.1761	2.7000e-004	6.1700e-003	6.1700e-003	6.1700e-003	5.6900e-003	5.6900e-003	5.6900e-003	0.0000	23.5448	23.5448	7.4600e-003	0.0000	23.7314
MT/yr																

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

3.6 Paving - 2023

Mitigated Construction Off-Site

Category	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
	tons/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	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
Total	8.3000e-004	6.0000e-004	6.8600e-003	2.0000e-005	2.5000e-003	1.0000e-005	2.5200e-003	6.7000e-004	1.0000e-005	6.8000e-004	0.0000	1.9209	1.9209	5.0000e-005	6.0000e-005	1.9387
	MT/yr															

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	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
	tons/yr															
Archit. Coating	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142
Total	0.0940	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1142
	MT/yr															

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

3.7 Architectural Coating - 2023

Unmitigated Construction Off-Site

Category	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
tons/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
MT/yr																

Mitigated Construction On-Site

Category	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
tons/yr																
Archit. Coating	0.0902					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.8300e-003	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141
Total	0.0940	0.0261	0.0362	6.0000e-005	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	1.4200e-003	0.0000	5.1065	5.1065	3.1000e-004	0.0000	5.1141
MT/yr																

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

3.7 Architectural Coating - 2023

Mitigated Construction Off-Site

Category	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
	tons/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
	MT/Yr															

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

ATTACHMENT 2

Category	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
	tons/yr															
Mitigated	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
Unmitigated	0.0136	0.0226	0.1372	2.8000e-004	0.0293	2.7000e-004	0.0296	7.8400e-003	2.5000e-004	8.0900e-003	0.0000	26.0407	26.0407	1.5700e-003	1.2900e-003	26.4634
	MT/yr															

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Total	18.88	19.08	17.10	78,362	78,362

4.3 Trip Type Information

Land Use	Miles						Trip %						Trip Purpose %		
	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						
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3						
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3						

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.486418	0.056693	0.203223	0.148945	0.038507	0.009459	0.008260	0.005996	0.000952	0.000366	0.033245	0.001002	0.006934

5.0 Energy Detail

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

Category	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
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.1731	3.1731	2.3000e-004	3.0000e-005	3.1875
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3.1731	3.1731	2.3000e-004	3.0000e-005	3.1875
NaturalGas Mitigated	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
NaturalGas Unmitigated	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
Single Family Housing	26629.5	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
Total		2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

Mitigated

Land Use	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
Single Family Housing	26629.5	2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590
Total		2.9000e-004	2.4500e-003	1.0400e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8421	2.8421	5.0000e-005	5.0000e-005	2.8590

ATTACHMENT 2

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

5.3 Energy by Land Use - Electricity

Unmitigated

Land Use	Electricity Use KWh/yr	Total CO2	CH4	N2O	CO2e
Single Family Housing	7833.22	3.1731	2.3000e-004	3.0000e-005	3.1875
Total		3.1731	2.3000e-004	3.0000e-005	3.1875

Mitigated

Land Use	Electricity Use KWh/yr	Total CO2	CH4	N2O	CO2e
Single Family Housing	7833.22	3.1731	2.3000e-004	3.0000e-005	3.1875
Total		3.1731	2.3000e-004	3.0000e-005	3.1875

6.0 Area Detail

6.1 Mitigation Measures Area

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

Category	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
tons/yr																
Mitigated	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Unmitigated	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
MT/yr																

6.2 Area by SubCategory

Unmitigated

SubCategory	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
tons/yr																
Architectural Coating	9.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0225					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	8.2000e-004	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Total	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
MT/yr																

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

6.2 Area by SubCategory

Mitigated

SubCategory	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
tons/yr																
MT/yr																
Architectural Coating	9.0200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0225					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	8.2000e-004	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455
Total	0.0324	3.1000e-004	0.0272	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004	0.0000	0.0445	0.0445	4.0000e-005	0.0000	0.0455

7.0 Water Detail

7.1 Mitigation Measures Water

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

Category	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2424	4.2600e-003	1.0000e-004	0.3793
Unmitigated	0.2424	4.2600e-003	1.0000e-004	0.3793

7.2 Water by Land Use
Unmitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	0.2424	4.2600e-003	1.0000e-004	0.3793
Total		0.2424	4.2600e-003	1.0000e-004	0.3793

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

Mitigated

Land Use	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.130308 / 0.0821507	0.2424	4.2600e-003	1.0000e-004	0.3793
Total		0.2424	4.2600e-003	1.0000e-004	0.3793

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

Category/Year	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.4994	0.0295	0.0000	1.2371
Unmitigated	0.4994	0.0295	0.0000	1.2371

ATTACHMENT 2

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

8.2 Waste by Land Use

Unmitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		0.4994	0.0295	0.0000	1.2371

Mitigated

Land Use	Waste Disposed tons	Total CO2	CH4	N2O	CO2e
Single Family Housing	2.46	0.4994	0.0295	0.0000	1.2371
Total		0.4994	0.0295	0.0000	1.2371

9.0 Operational Offroad

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

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

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

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

**841 Patricia Drive Project
San Luis Obispo County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.71	4,941.00	3
Single Family Housing	1.00	Dwelling Unit	0.71	825.00	3

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4	Operational Year	2024		
Utility Company	User Defined				

CO2 Intensity (lb/MWhr)	446.53	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
-------------------------	--------	-------------------------	-------	-------------------------	-------

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor for Central Coast Clean Energy year 2024
CH4 and N2O are PG&E defaults

Land Use - One 4,941-sf residence and an 825-sf ADU on a 1.41-acre parcel

Construction Phase - Construction will last 18-24 months
24 months has been conservatively assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

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

Off-road Equipment -

Off-road Equipment -

Demolition - On-site shed is estimated to be: 15' wide x 12' deep x 10' high

Demolition is conservatively assumed as it is only an option

Grading - Approx 1,932 cubic yards (cy) of cut and 650 cy of fill for a total of 1,280 cy of earthwork.

Disturb 35,000 sf (0.8 acre), however, CalEEMod defaults for graded acres during site prep and grading were assumed.

Table Name	Column Name	Default Value	New Value
tbConstructionPhase	NumDays	20.00	40.00
tbConstructionPhase	NumDays	2.00	20.00
tbConstructionPhase	NumDays	4.00	20.00
tbConstructionPhase	NumDays	200.00	595.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	MaterialExported	0.00	1,280.00
tblLandUse	LandUseSquareFeet	1,800.00	4,941.00
tblLandUse	LandUseSquareFeet	1,800.00	825.00
tblLandUse	LotAcreage	0.32	0.71
tblLandUse	LotAcreage	0.32	0.71
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	446.53
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

CalEEMod Version: CalEEMod.2020.4.0

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

2.0 Emissions Summary

841 Patricia Drive Project - San Luis Obispo County, Summer

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	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
lb/day																
2022	6.3370	62.3913	44.2300	0.0919	13.8191	2.8074	16.6265	6.5534	2.6225	9.1758	0.0000	8,830.701	8,830.701	2.1519	0.0971	8,913.439
							5					5				6
2023	6.9136	19.2783	23.6053	0.0398	0.1384	0.8944	1.0328	0.0367	0.8529	0.8896	0.0000	3,699.072	3,699.072	0.7712	3.0600e-003	3,719.262
												5				2
2024	1.4230	11.0657	12.5424	0.0221	9.8900e-003	0.4506	0.4605	2.6200e-003	0.4348	0.4374	0.0000	2,010.095	2,010.095	0.3336	2.0000e-004	2,018.495
												3				5
Maximum	6.9136	62.3913	44.2300	0.0919	13.8191	2.8074	16.6265	6.5534	2.6225	9.1758	0.0000	8,830.701	8,830.701	2.1519	0.0971	8,913.439
												5				6

Mitigated Construction

Year	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
lb/day																
2022	6.3370	62.3913	44.2300	0.0919	13.8191	2.8074	16.6265	6.5534	2.6225	9.1758	0.0000	8,830.701	8,830.701	2.1519	0.0971	8,913.439
												5				6
2023	6.9136	19.2783	23.6053	0.0398	0.1384	0.8944	1.0328	0.0367	0.8529	0.8896	0.0000	3,699.072	3,699.072	0.7712	3.0600e-003	3,719.262
												5				2
2024	1.4230	11.0657	12.5424	0.0221	9.8900e-003	0.4506	0.4605	2.6200e-003	0.4348	0.4374	0.0000	2,010.095	2,010.095	0.3336	2.0000e-004	2,018.495
												3				5
Maximum	6.9136	62.3913	44.2300	0.0919	13.8191	2.8074	16.6265	6.5534	2.6225	9.1758	0.0000	8,830.701	8,830.701	2.1519	0.0971	8,913.439
												5				6

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

2.2 Overall Operational

Unmitigated Operational

Category	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
lb/day																
Area	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042			
Energy	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	0.0451	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Mobile	0.0781	0.1193	0.7582	1.6300e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	165.7559	165.7559	165.7559	9.3100e-003	7.6500e-003	168.2688
Total	0.2574	0.1346	0.9289	1.7300e-003	0.1691	3.5300e-003	0.1727	0.0451	3.4300e-003	0.0486	0.0000	183.2195	183.2195	9.9300e-003	7.9600e-003	185.8415

Mitigated Operational

Category	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
lb/day																
Area	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042			
Energy	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	0.0451	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Mobile	0.0781	0.1193	0.7582	1.6300e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	165.7559	165.7559	165.7559	9.3100e-003	7.6500e-003	168.2688
Total	0.2574	0.1346	0.9289	1.7300e-003	0.1691	3.5300e-003	0.1727	0.0451	3.4300e-003	0.0486	0.0000	183.2195	183.2195	9.9300e-003	7.9600e-003	185.8415

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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
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	Demolition	Demolition	3/1/2022	4/15/2022	6	40	
2	Site Preparation	Site Preparation	3/29/2022	4/20/2022	6	20	
3	Grading	Grading	3/31/2022	4/22/2022	6	20	
4	Building Construction	Building Construction	4/6/2022	2/28/2024	6	595	
5	Paving	Paving	1/1/2023	2/25/2023	6	40	
6	Architectural Coating	Architectural Coating	1/25/2023	3/1/2023	6	40	

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 11,676; Residential Outdoor: 3,892; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

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

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Demolition	5	13.00	0.00	1.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	160.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

Category	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
	lb/day															
Fugitive Dust					4.5700e-003	0.0000	4.5700e-003	6.9000e-004	0.0000	6.9000e-004			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		2.323,416 ⁸	2.323,416 ⁸	0.5921		2,338,219 ¹
Total	1.6889	16.6217	13.9605	0.0241	4.5700e-003	0.8379	0.8425	6.9000e-004	0.7829	0.7836		2,323,416⁸	2,323,416⁸	0.5921		2,338,219¹

Unmitigated Construction Off-Site

Category	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
	lb/day															
Hauling	1.2000e-004	4.9200e-003	8.9000e-004	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	4.0000e-005	1.6000e-004		1.7619	1.7619	6.0000e-005	2.8000e-004	1.8465
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
Worker	0.0439	0.0307	0.3838	1.1200e-003	0.1285	6.5000e-004	0.1292	0.0341	6.0000e-004	0.0347		113,1484	113,1484	3.1200e-003	3.0700e-003	114,1398
Total	0.0440	0.0356	0.3847	1.1400e-003	0.1290	6.9000e-004	0.1297	0.0342	6.4000e-004	0.0348		114,9103	114,9103	3.1800e-003	3.3500e-003	115,9864

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.2 Demolition - 2022

Mitigated Construction On-Site

Category	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
	lb/day															
Fugitive Dust					4.5700e-003	0.0000	4.5700e-003	6.9000e-004	0.0000	6.9000e-004			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2.323,416 ⁸	2.323,416 ⁸	0.5921		2,338,219 ¹
Total	1.6889	16.6217	13.9605	0.0241	4.5700e-003	0.8379	0.8425	6.9000e-004	0.7829	0.7836	0.0000	2,323,416⁸	2,323,416⁸	0.5921		2,338,219¹

Mitigated Construction Off-Site

Category	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
	lb/day															
Hauling	1.2000e-004	4.9200e-003	8.9000e-004	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	4.0000e-005	1.6000e-004		1.7619	1.7619	6.0000e-005	2.8000e-004	1.8465
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
Worker	0.0439	0.0307	0.3838	1.1200e-003	0.1285	6.5000e-004	0.1292	0.0341	6.0000e-004	0.0347		113,1484	113,1484	3.1200e-003	3.0700e-003	114,1398
Total	0.0440	0.0356	0.3847	1.1400e-003	0.1290	6.9000e-004	0.1297	0.0342	6.4000e-004	0.0348		114,9103	114,9103	3.1800e-003	3.3500e-003	115,9864

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					6.2635	0.0000	6.2635	3.0038	0.0000	3.0038			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666,173 ⁸	1,666,173 ⁸	0.5389		1,679,645 ⁷
Total	1.3122	14.6277	7.0939	0.0172	6.2635	0.6225	6.8861	3.0038	0.5727	3.5765		1,666,173⁸	1,666,173⁸	0.5389		1,679,645⁷

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	0.0270	0.0189	0.2362	6.9000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213		69,6298	69,6298	1.9200e-003	1.8900e-003	70,2399
Total	0.0270	0.0189	0.2362	6.9000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213		69,6298	69,6298	1.9200e-003	1.8900e-003	70,2399

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.3 Site Preparation - 2022

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					6.2635	0.0000	6.2635	3.0038	0.0000	3.0038			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457
Total	1.3122	14.6277	7.0939	0.0172	6.2635	0.6225	6.8861	3.0038	0.5727	3.5765	0.0000	1,666.1738	1,666.1738	0.5389		1,679.6457

Mitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	0.0270	0.0189	0.2362	6.9000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213			69.6298	1.9200e-003	1.8900e-003	70.2399
Total	0.0270	0.0189	0.2362	6.9000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213			69.6298	1.9200e-003	1.8900e-003	70.2399

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					7.0944	0.0000	7.0944	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995,482.5	1,995,482.5	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0944	0.7423	7.8367	3.4265	0.6829	4.1094		1,995,482.5	1,995,482.5	0.6454		2,011.6169

Unmitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0389	1.5747	0.2833	5.1900e-003	0.1398	0.0142	0.1540	0.0383	0.0136	0.0519		563.8045	563.8045	0.0192	0.0893	590.8937
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
Worker	0.0337	0.0236	0.2952	8.6000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		87.0372	87.0372	2.4000e-003	2.3600e-003	87.7999
Total	0.0726	1.5983	0.5786	6.0500e-003	0.2387	0.0147	0.2534	0.0645	0.0141	0.0786		650.8417	650.8417	0.0216	0.0917	678.6936

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.4 Grading - 2022

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					7.0944	0.0000	7.0944	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995,482.5	1,995,482.5	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0944	0.7423	7.8367	3.4265	0.6829	4.1094	0.0000	1,995,482.5	1,995,482.5	0.6454		2,011.6169

Mitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0389	1.5747	0.2833	5.1900e-003	0.1398	0.0142	0.1540	0.0383	0.0136	0.0519		563.8045	563.8045	0.0192	0.0893	590.8937
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
Worker	0.0337	0.0236	0.2952	8.6000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		87.0372	87.0372	2.4000e-003	2.3600e-003	87.7999
Total	0.0726	1.5983	0.5786	6.0500e-003	0.2387	0.0147	0.2534	0.0645	0.0141	0.0786		650.8417	650.8417	0.0216	0.0917	678.6936

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	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
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001,542 ⁹	2,001,542 ⁹	0.3486		2,010,258 ¹
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001,542⁹	2,001,542⁹	0.3486		2,010,258¹

Unmitigated Construction Off-Site

Category	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
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
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
Worker	3.3700e-003	2.3600e-003	0.0295	9.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.7037	8.7037	2.4000e-004	2.4000e-004	8.7800
Total	3.3700e-003	2.3600e-003	0.0295	9.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.7037	8.7037	2.4000e-004	2.4000e-004	8.7800

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2022

Mitigated Construction On-Site

Category	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
	lb/day															
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001,542.9	2,001,542.9	0.3486		2,010,258.1
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001,542.9	2,001,542.9	0.3486		2,010,258.1

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	3.3700e-003	2.3600e-003	0.0295	9.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.7037	8.7037	2.4000e-004	2.4000e-004	8.7800
Total	3.3700e-003	2.3600e-003	0.0295	9.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.7037	8.7037	2.4000e-004	2.4000e-004	8.7800

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	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
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

Unmitigated Construction Off-Site

Category	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
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
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
Worker	3.1600e-003	2.0900e-003	0.0272	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.4392	8.4392	2.2000e-004	2.2000e-004	8.5096
Total	3.1600e-003	2.0900e-003	0.0272	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.4392	8.4392	2.2000e-004	2.2000e-004	8.5096

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

Category	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
	lb/day															
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	3.1600e-003	2.0900e-003	0.0272	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.4392	8.4392	2.2000e-004	2.2000e-004	8.5096
Total	3.1600e-003	2.0900e-003	0.0272	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.4392	8.4392	2.2000e-004	2.2000e-004	8.5096

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

Category	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
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

Unmitigated Construction Off-Site

Category	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
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
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
Worker	2.9700e-003	1.8600e-003	0.0252	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		8.1739	8.1739	2.0000e-004	2.0000e-004	8.2393
Total	2.9700e-003	1.8600e-003	0.0252	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		8.1739	8.1739	2.0000e-004	2.0000e-004	8.2393

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

Category	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
	lb/day															
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	2.9700e-003	1.8600e-003	0.0252	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		8.1739	8.1739	2.0000e-004	2.0000e-004	8.2393
Total	2.9700e-003	1.8600e-003	0.0252	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		8.1739	8.1739	2.0000e-004	2.0000e-004	8.2393

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	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	
	lb/day																
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297,688	1,297,688	0	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297,688	1,297,688	0	0.4114		1,307.9725

Unmitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	0.0411	0.0272	0.3535	1.0900e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		109.7096	109.7096	2.8200e-003	2.8400e-003	110.6253
Total	0.0411	0.0272	0.3535	1.0900e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		109.7096	109.7096	2.8200e-003	2.8400e-003	110.6253

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.6 Paving - 2023

Mitigated Construction On-Site

Category	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	
	lb/day																
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297,688	0	1,297,688	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297,688	0	1,297,688	0.4114		1,307.9725

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	0.0411	0.0272	0.3535	1.0900e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		109.7096	109.7096	2.8200e-003	2.8400e-003	110.6253
Total	0.0411	0.0272	0.3535	1.0900e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		109.7096	109.7096	2.8200e-003	2.8400e-003	110.6253

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	4.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	4.7015	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
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
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

841 Patricia Drive Project - San Luis Obispo County, Summer

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	4.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	4.7015	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

Category	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
lb/day																
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
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
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
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

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

Category	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
Mitigated	0.0781	0.1193	0.7582	1.6300e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	165.7559	165.7559	9.3100e-003	7.6500e-003	168.2688	
Unmitigated	0.0781	0.1193	0.7582	1.6300e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	165.7559	165.7559	9.3100e-003	7.6500e-003	168.2688	
	lb/day															

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Total	18.88	19.08	17.10	78,362	78,362

4.3 Trip Type Information

Land Use	Miles						Trip %						Trip Purpose %					
	H-W or C-W	HS or C-C	H-O or C-NW	H-W or C-W	HS or C-C	H-O or C-NW	Primary	Diverted	Pass-by	H-W or C-W	HS or C-C	H-O or C-NW	Primary	Diverted	Pass-by			
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	13.00	13.00	13.00	35.80	21.00	43.20			
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	13.00	13.00	13.00	35.80	21.00	43.20			

4.4 Fleet Mix

841 Patricia Drive Project - San Luis Obispo County, Summer

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCV	SBUS	MH
Single Family Housing	0.486418	0.056693	0.203223	0.148945	0.038507	0.009459	0.008260	0.005996	0.000952	0.000366	0.033245	0.001002	0.006934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOK	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bi-Co2	NBi-Co2	Total CO2	CH4	N2O	CO2e
	lb/day															
NaturalGas Mitigated	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
NaturalGas Unmitigated	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

841 Patricia Drive Project - San Luis Obispo County, Summer

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
Single Family Housing	72.9576	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Total		1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

Mitigated

Land Use	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
Single Family Housing	0.0729576	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Total		1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

6.0 Area Detail

6.1 Mitigation Measures Area

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

Category	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
	lb/day															
Mitigated	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042
Unmitigated	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

6.2 Area by SubCategory

Unmitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0494				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1234				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	0.0000	0.0000
Landscaping	4.9600e-003	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3042
Total	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

841 Patricia Drive Project - San Luis Obispo County, Summer

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

6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1234					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	4.9600e-003	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004		0.3042
Total	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

7.0 Water Detail

7.1 Mitigation Measures Water

841 Patricia Drive Project - San Luis Obispo County, Summer

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

841 Patricia Drive Project - San Luis Obispo County, Winter

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

841 Patricia Drive Project

San Luis Obispo County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.71	4,941.00	3
Single Family Housing	1.00	Dwelling Unit	0.71	825.00	3

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	3.2	Precipitation Freq (Days)	44
Climate Zone	4	Operational Year	2024		
Utility Company	User Defined				

CO2 Intensity (lb/MWhr)	446.53	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004
-------------------------	--------	-------------------------	-------	-------------------------	-------

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Factor for Central Coast Clean Energy year 2024
 CH4 and N2O are PG&E defaults

Land Use - One 4,941-sf residence and an 825-sf ADU on a 1.41-acre parcel

Construction Phase - Construction will last 18-24 months
 24 months has been conservatively assumed

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

841 Patricia Drive Project - San Luis Obispo County, Winter

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

Off-road Equipment -

Off-road Equipment -

Demolition - On-site shed is estimated to be: 15' wide x 12' deep x 10' high
 Demolition is conservatively assumed as it is only an option

Grading - Approx 1,932 cubic yards (cy) of cut and 650 cy of fill for a total of 1,280 cy of earthwork.
 Disturb 35,000 sf (0.8 acre), however, CalEEMod defaults for graded acres during site prep and grading were assumed.

Table Name	Column Name	Default Value	New Value
tbConstructionPhase	NumDays	20.00	40.00
tbConstructionPhase	NumDays	2.00	20.00
tbConstructionPhase	NumDays	4.00	20.00
tbConstructionPhase	NumDays	200.00	595.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDays	10.00	40.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbConstructionPhase	NumDaysWeek	5.00	6.00
tbGrading	MaterialExported	0.00	1,280.00
tblLandUse	LandUseSquareFeet	1,800.00	4,941.00
tblLandUse	LandUseSquareFeet	1,800.00	825.00
tblLandUse	LotAcreage	0.32	0.71
tblLandUse	LotAcreage	0.32	0.71
tblProjectCharacteristics	CH4IntensityFactor	0	0.033
tblProjectCharacteristics	CO2IntensityFactor	0	446.53
tblProjectCharacteristics	N2OIntensityFactor	0	0.004
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural

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841 Patricia Drive Project - San Luis Obispo County, Winter

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

2.0 Emissions Summary

841 Patricia Drive Project - San Luis Obispo County, Winter

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

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

Year	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
lb/day																
2022	6.3470	62.4434	44.2106	0.0918	13.8191	2.8075	16.6266	6.5534	2.6225	9.1758	0.0000	8,819.176 2	8,819.176 2	2.1525	0.0978	8,902.135 1
2023	6.9182	19.2822	23.5962	0.0397	0.1384	0.8944	1.0328	0.0367	0.8529	0.8896	0.0000	3,694.123 9	3,694.123 9	0.7714	3.3300e-003	3,714.399 7
2024	1.4233	11.0660	12.5419	0.0221	9.8900e-003	0.4506	0.4605	2.6200e-003	0.4348	0.4374	0.0000	2,009.753 8	2,009.753 8	0.3336	2.2000e-004	2,018.159 7
Maximum	6.9182	62.4434	44.2106	0.0918	13.8191	2.8075	16.6266	6.5534	2.6225	9.1758	0.0000	8,819.176 2	8,819.176 2	2.1525	0.0978	8,902.135 1

Mitigated Construction

Year	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
lb/day																
2022	6.3470	62.4434	44.2106	0.0918	13.8191	2.8075	16.6266	6.5534	2.6225	9.1758	0.0000	8,819.176 2	8,819.176 2	2.1525	0.0978	8,902.135 1
2023	6.9182	19.2822	23.5962	0.0397	0.1384	0.8944	1.0328	0.0367	0.8529	0.8896	0.0000	3,694.123 9	3,694.123 9	0.7714	3.3300e-003	3,714.399 7
2024	1.4233	11.0660	12.5419	0.0221	9.8900e-003	0.4506	0.4605	2.6200e-003	0.4348	0.4374	0.0000	2,009.753 8	2,009.753 8	0.3336	2.2000e-004	2,018.159 7
Maximum	6.9182	62.4434	44.2106	0.0918	13.8191	2.8075	16.6266	6.5534	2.6225	9.1758	0.0000	8,819.176 2	8,819.176 2	2.1525	0.0978	8,902.135 1

841 Patricia Drive Project - San Luis Obispo County, Winter

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

2.2 Overall Operational

Unmitigated Operational

Category	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
lb/day																
Area	0.1778	1.9000e-003	0.1649	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042
Energy	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Mobile	0.0777	0.1276	0.7905	1.5800e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466		160.6971	160.6971	9.9500e-003	8.0500e-003	163.3435
Total	0.2570	0.1429	0.9611	1.6800e-003	0.1691	3.5300e-003	0.1727	0.0451	3.4300e-003	0.0486	0.0000	178.1607	178.1607	0.0106	8.3600e-003	180.9162

Mitigated Operational

Category	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
lb/day																
Area	0.1778	1.9000e-003	0.1649	1.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042
Energy	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Mobile	0.0777	0.1276	0.7905	1.5800e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466		160.6971	160.6971	9.9500e-003	8.0500e-003	163.3435
Total	0.2570	0.1429	0.9611	1.6800e-003	0.1691	3.5300e-003	0.1727	0.0451	3.4300e-003	0.0486	0.0000	178.1607	178.1607	0.0106	8.3600e-003	180.9162

ATTACHMENT 2

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
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	Demolition	Demolition	3/1/2022	4/15/2022	6	40	
2	Site Preparation	Site Preparation	3/29/2022	4/20/2022	6	20	
3	Grading	Grading	3/31/2022	4/22/2022	6	20	
4	Building Construction	Building Construction	4/6/2022	2/28/2024	6	595	
5	Paving	Paving	1/1/2023	2/25/2023	6	40	
6	Architectural Coating	Architectural Coating	1/25/2023	3/1/2023	6	40	

Acres of Grading (Site Preparation Phase): 18.75

Acres of Grading (Grading Phase): 20

Acres of Paving: 0

Residential Indoor: 11,676; Residential Outdoor: 3,892; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40

841 Patricia Drive Project - San Luis Obispo County, Winter

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

Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
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
Demolition	5	13.00	0.00	1.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	160.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	1.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	13.00	13.00	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.2 Demolition - 2022

Unmitigated Construction On-Site

Category	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
	lb/day															
Fugitive Dust					4.5700e-003	0.0000	4.5700e-003	6.9000e-004	0.0000	6.9000e-004			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829		8	2,323,416	0.5921		2,338,219
Total	1.6889	16.6217	13.9605	0.0241	4.5700e-003	0.8379	0.8425	6.9000e-004	0.7829	0.7836		8	2,323,416	0.5921		2,338,219

Unmitigated Construction Off-Site

Category	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
	lb/day															
Hauling	1.2000e-004	5.0500e-003	9.0000e-004	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	4.0000e-005	1.6000e-004		1,7624	1,7624	6.0000e-005	2.8000e-004	1,8471
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
Worker	0.0483	0.0348	0.3739	1.0700e-003	0.1285	6.5000e-004	0.1292	0.0341	6.0000e-004	0.0347		108,3961	108,3961	3.3500e-003	3.3400e-003	109,4741
Total	0.0484	0.0399	0.3748	1.0900e-003	0.1290	6.9000e-004	0.1297	0.0342	6.4000e-004	0.0348		110,1585	110,1585	3.4100e-003	3.6200e-003	111,3212

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.2 Demolition - 2022

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					4.5700e-003	0.0000	4.5700e-003	6.9000e-004	0.0000	6.9000e-004			0.0000			0.0000
Off-Road	1.6889	16.6217	13.9605	0.0241		0.8379	0.8379		0.7829	0.7829	0.0000	2.323,416 ⁸	2.323,416 ⁸	0.5921		2,338,219 ¹
Total	1.6889	16.6217	13.9605	0.0241	4.5700e-003	0.8379	0.8425	6.9000e-004	0.7829	0.7836	0.0000	2,323,416⁸	2,323,416⁸	0.5921		2,338,219¹

Mitigated Construction Off-Site

Category	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
lb/day																
Hauling	1.2000e-004	5.0500e-003	9.0000e-004	2.0000e-005	4.4000e-004	4.0000e-005	4.8000e-004	1.2000e-004	4.0000e-005	1.6000e-004		1.7624	1.7624	6.0000e-005	2.8000e-004	1.8471
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
Worker	0.0483	0.0348	0.3739	1.0700e-003	0.1285	6.5000e-004	0.1292	0.0341	6.0000e-004	0.0347		108,3961	108,3961	3.3500e-003	3.3400e-003	109,4741
Total	0.0484	0.0399	0.3748	1.0900e-003	0.1290	6.9000e-004	0.1297	0.0342	6.4000e-004	0.0348		110,1585	110,1585	3.4100e-003	3.6200e-003	111,3212

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					6.2635	0.0000	6.2635	3.0038	0.0000	3.0038			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727		1,666,173 ⁸	1,666,173 ⁸	0.5389		1,679,645 ⁷
Total	1.3122	14.6277	7.0939	0.0172	6.2635	0.6225	6.8861	3.0038	0.5727	3.5765		1,666,173⁸	1,666,173⁸	0.5389		1,679,645⁷

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	0.0297	0.0214	0.2301	6.6000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213		66,7053	66,7053	2.0600e-003		2,0500e-003
Total	0.0297	0.0214	0.2301	6.6000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213		66,7053	66,7053	2.0600e-003		2,0500e-003

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.3 Site Preparation - 2022

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					6.2635	0.0000	6.2635	3.0038	0.0000	3.0038			0.0000			0.0000
Off-Road	1.3122	14.6277	7.0939	0.0172		0.6225	0.6225		0.5727	0.5727	0.0000	1,666,173 ⁸	1,666,173 ⁸	0.5389		1,679,645 ⁷
Total	1.3122	14.6277	7.0939	0.0172	6.2635	0.6225	6.8861	3.0038	0.5727	3.5765	0.0000	1,666,173⁸	1,666,173⁸	0.5389		1,679,645⁷

Mitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	0.0297	0.0214	0.2301	6.6000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213			66,7053	2.0600e-003	2.0500e-003	67,3687
Total	0.0297	0.0214	0.2301	6.6000e-004	0.0791	4.0000e-004	0.0795	0.0210	3.7000e-004	0.0213			66,7053	2.0600e-003	2.0500e-003	67,3687

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.4 Grading - 2022

Unmitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					7.0944	0.0000	7.0944	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829		1,995,482.5	1,995,482.5	0.6454		2,011.6169
Total	1.5403	16.9836	9.2202	0.0206	7.0944	0.7423	7.8367	3.4265	0.6829	4.1094		1,995,482.5	1,995,482.5	0.6454		2,011.6169

Unmitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0380	1.6166	0.2883	5.1900e-003	0.1398	0.0142	0.1541	0.0383	0.0136	0.0519		563.9767	563.9767	0.0192	0.0893	591.0735
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
Worker	0.0371	0.0268	0.2876	8.2000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267		83.3816	83.3816	2.5800e-003	2.5700e-003	84.2109
Total	0.0751	1.6434	0.5760	6.0100e-003	0.2387	0.0147	0.2534	0.0645	0.0141	0.0786		647.3583	647.3583	0.0218	0.0919	675.2844

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.4 Grading - 2022

Mitigated Construction On-Site

Category	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
lb/day																
Fugitive Dust					7.0944	0.0000	7.0944	3.4265	0.0000	3.4265			0.0000			0.0000
Off-Road	1.5403	16.9836	9.2202	0.0206		0.7423	0.7423		0.6829	0.6829	0.0000	1,995,482 ⁵	1,995,482 ⁵	0.6454		2,011.616 ⁹
Total	1.5403	16.9836	9.2202	0.0206	7.0944	0.7423	7.8367	3.4265	0.6829	4.1094	0.0000	1,995,482⁵	1,995,482⁵	0.6454		2,011.616⁹

Mitigated Construction Off-Site

Category	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
lb/day																
Hauling	0.0380	1.6166	0.2883	5.1900e-003	0.1398	0.0142	0.1541	0.0383	0.0136	0.0519			563.9767	0.0192	0.0893	591.0735
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
Worker	0.0371	0.0268	0.2876	8.2000e-004	0.0989	5.0000e-004	0.0994	0.0262	4.6000e-004	0.0267			83.3816	2.5800e-003	2.5700e-003	84.2109
Total	0.0751	1.6434	0.5760	6.0100e-003	0.2387	0.0147	0.2534	0.0645	0.0141	0.0786			647.3583	0.0218	0.0919	675.2844

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2022

Unmitigated Construction On-Site

Category	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
lb/day																
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001,542 ⁹	2,001,542 ⁹	0.3486		2,010,258 ¹
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689		2,001,542⁹	2,001,542⁹	0.3486		2,010,258¹

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	3.7100e-003	2.6800e-003	0.0288	8.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.3382	8.3382	2.6000e-004	2.6000e-004	8.4211
Total	3.7100e-003	2.6800e-003	0.0288	8.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.3382	8.3382	2.6000e-004	2.6000e-004	8.4211

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2022

Mitigated Construction On-Site

Category	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
	lb/day															
Off-Road	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001,542 ⁹	2,001,542 ⁹	0.3486		2,010,258 ¹
Total	1.6487	12.5031	12.7264	0.0221		0.5889	0.5889		0.5689	0.5689	0.0000	2,001,542⁹	2,001,542⁹	0.3486		2,010,258¹

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	3.7100e-003	2.6800e-003	0.0288	8.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.3382	8.3382	2.6000e-004	2.6000e-004	8.4211
Total	3.7100e-003	2.6800e-003	0.0288	8.0000e-005	9.8900e-003	5.0000e-005	9.9400e-003	2.6200e-003	5.0000e-005	2.6700e-003		8.3382	8.3382	2.6000e-004	2.6000e-004	8.4211

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2023

Unmitigated Construction On-Site

Category	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
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968		2,001.7877	2,001.7877	0.3399		2,010.2858

Unmitigated Construction Off-Site

Category	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
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
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
Worker	3.4900e-003	2.3700e-003	0.0266	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.0857	8.0857	2.3000e-004	2.4000e-004	8.1623
Total	3.4900e-003	2.3700e-003	0.0266	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.0857	8.0857	2.3000e-004	2.4000e-004	8.1623

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2023

Mitigated Construction On-Site

Category	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
lb/day																
Off-Road	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858
Total	1.5233	11.7104	12.6111	0.0221		0.5145	0.5145		0.4968	0.4968	0.0000	2,001.7877	2,001.7877	0.3399		2,010.2858

Mitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	3.4900e-003	2.3700e-003	0.0266	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.0857	8.0857	2.3000e-004	2.4000e-004	8.1623
Total	3.4900e-003	2.3700e-003	0.0266	8.0000e-005	9.8900e-003	5.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6700e-003		8.0857	8.0857	2.3000e-004	2.4000e-004	8.1623

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2024

Unmitigated Construction On-Site

Category	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
lb/day																
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348		2,001.9214	2,001.9214	0.3334		2,010.2563

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
Worker	3.2900e-003	2.1100e-003	0.0247	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		7.8324	7.8324	2.1000e-004	2.2000e-004	7.9035
Total	3.2900e-003	2.1100e-003	0.0247	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		7.8324	7.8324	2.1000e-004	2.2000e-004	7.9035

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.5 Building Construction - 2024

Mitigated Construction On-Site

Category	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
	lb/day															
Off-Road	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563
Total	1.4200	11.0639	12.5172	0.0221		0.4506	0.4506		0.4348	0.4348	0.0000	2,001.9214	2,001.9214	0.3334		2,010.2563

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	3.2900e-003	2.1100e-003	0.0247	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		7.8324	7.8324	2.1000e-004	2.2000e-004	7.9035
Total	3.2900e-003	2.1100e-003	0.0247	8.0000e-005	9.8900e-003	4.0000e-005	9.9300e-003	2.6200e-003	4.0000e-005	2.6600e-003		7.8324	7.8324	2.1000e-004	2.2000e-004	7.9035

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.6 Paving - 2023

Unmitigated Construction On-Site

Category	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	
	lb/day																
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297,688	0	1,297,688	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846		1,297,688	0	1,297,688	0.4114		1,307.9725

Unmitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	0.0453	0.0308	0.3451	1.0400e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		105.1145	105.1145	3.0400e-003	3.0900e-003	106.1102
Total	0.0453	0.0308	0.3451	1.0400e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		105.1145	105.1145	3.0400e-003	3.0900e-003	106.1102

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.6 Paving - 2023

Mitigated Construction On-Site

Category	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	
	lb/day																
Off-Road	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297,688	0	1,297,688	0.4114		1,307.9725
Paving	0.0000					0.0000	0.0000		0.0000	0.0000				0.0000			0.0000
Total	0.6446	6.2357	8.8024	0.0136		0.3084	0.3084		0.2846	0.2846	0.0000	1,297,688	0	1,297,688	0.4114		1,307.9725

Mitigated Construction Off-Site

Category	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
	lb/day															
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
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
Worker	0.0453	0.0308	0.3451	1.0400e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		105.1145	105.1145	3.0400e-003	3.0900e-003	106.1102
Total	0.0453	0.0308	0.3451	1.0400e-003	0.1285	6.1000e-004	0.1291	0.0341	5.7000e-004	0.0347		105.1145	105.1145	3.0400e-003	3.0900e-003	106.1102

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.7 Architectural Coating - 2023

Unmitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	4.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690
Total	4.7015	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708		281.4481	281.4481	0.0168		281.8690

Unmitigated Construction Off-Site

Category	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
lb/day																
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
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
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
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

841 Patricia Drive Project - San Luis Obispo County, Winter

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

3.7 Architectural Coating - 2023

Mitigated Construction On-Site

Category	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
lb/day																
Archit. Coating	4.5099					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1917	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690
Total	4.7015	1.3030	1.8111	2.9700e-003		0.0708	0.0708		0.0708	0.0708	0.0000	281.4481	281.4481	0.0168		281.8690

Mitigated Construction Off-Site

Category	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
lb/day																
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
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
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
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

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

Category	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
Mitigated	0.0777	0.1276	0.7905	1.5800e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	160.6971	160.6971	9.9500e-003	8.0500e-003	163.3435	
Unmitigated	0.0777	0.1276	0.7905	1.5800e-003	0.1691	1.5300e-003	0.1707	0.0451	1.4300e-003	0.0466	160.6971	160.6971	9.9500e-003	8.0500e-003	163.3435	
	lb/day															

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated Annual VMT	Mitigated Annual VMT
	Weekday	Saturday	Sunday		
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Single Family Housing	9.44	9.54	8.55	39,181	39,181
Total	18.88	19.08	17.10	78,362	78,362

4.3 Trip Type Information

Land Use	Miles						Trip %						Trip Purpose %		
	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	Primary	Diverted	Pass-by	Primary	Diverted	Pass-by
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	86	11	3	86	11	3
Single Family Housing	13.00	13.00	13.00	35.80	21.00	43.20	86	11	3	86	11	3	86	11	3

4.4 Fleet Mix

841 Patricia Drive Project - San Luis Obispo County, Winter

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

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCV	SBUS	MH
Single Family Housing	0.486418	0.056693	0.203223	0.148945	0.038507	0.009459	0.008260	0.005996	0.000952	0.000366	0.033245	0.001002	0.006934

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Category	ROG	NOK	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bi-Co2	NBi-Co2	Total CO2	CH4	N2O	CO2e
	lb/day															
NaturalGas Mitigated	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
NaturalGas Unmitigated	1.5700e-003	0.0135	5.7200e-003	9.0000e-005	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	1.0900e-003	17.1665	17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

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5.2 Energy by Land Use - NaturalGas

Unmitigated

Land Use	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
Single Family Housing	72.9576	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Total		1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

Mitigated

Land Use	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
Single Family Housing	0.0729576	1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685
Total		1.5700e-003	0.0135	5.7200e-003	9.0000e-005		1.0900e-003	1.0900e-003		1.0900e-003	1.0900e-003		17.1665	17.1665	3.3000e-004	3.1000e-004	17.2685

6.0 Area Detail

6.1 Mitigation Measures Area

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Category	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
	lb/day															
Mitigated	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042
Unmitigated	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

6.2 Area by SubCategory

Unmitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0494				0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1234				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	0.0000	0.0000
Landscaping	4.9600e-003	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004		0.2971	0.2971	2.9000e-004		0.3042
Total	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

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6.2 Area by SubCategory

Mitigated

SubCategory	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
	lb/day															
Architectural Coating	0.0494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1234					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	4.9600e-003	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004		0.3042
Total	0.1778	1.9000e-003	0.1649	1.0000e-005	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	9.1000e-004	0.0000	0.2971	0.2971	2.9000e-004	0.0000	0.3042

7.0 Water Detail

7.1 Mitigation Measures Water

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8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
