

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Annual

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

**Sepulveda Centinela - Existing
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	23.22	1000sqft	0.53	23,223.00	0
Quality Restaurant	9.45	1000sqft	0.22	9,448.00	0
Parking Lot	63.36	1000sqft	1.45	63,359.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing site emissions scenario - no construction

Land Use - Applicant info

Construction Phase - Existing site emissions scenario - no construction

Off-road Equipment - No construction

Vehicle Trips - LADOT Transportation Assessment MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	9/3/2021	8/9/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	90.04	95.36
tblVehicleTrips	ST_TR	42.04	32.08
tblVehicleTrips	SU_TR	71.97	95.36
tblVehicleTrips	SU_TR	20.43	32.08
tblVehicleTrips	WD_TR	83.84	95.36
tblVehicleTrips	WD_TR	44.32	32.08

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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

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		Highest	
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2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003
Energy	0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	326.3248	326.3248	0.0118	3.5500e-003	327.6780
Mobile	0.7156	0.7799	6.0130	0.0107	1.0144	0.0114	1.0258	0.2706	0.0106	0.2812	0.0000	991.8798	991.8798	0.0886	0.0535	1,010.0336
Waste						0.0000	0.0000		0.0000	0.0000	6.6987	0.0000	6.6987	0.3959	0.0000	16.5958
Water						0.0000	0.0000		0.0000	0.0000	1.4557	23.0671	24.5228	0.1506	3.6600e-003	29.3798
Total	0.8673	0.9019	6.1167	0.0115	1.0144	0.0206	1.0350	0.2706	0.0199	0.2905	8.1544	1,341.2741	1,349.4284	0.6468	0.0607	1,383.6898

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003
Energy	0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	326.3248	326.3248	0.0118	3.5500e-003	327.6780
Mobile	0.7156	0.7799	6.0130	0.0107	1.0144	0.0114	1.0258	0.2706	0.0106	0.2812	0.0000	991.8798	991.8798	0.0886	0.0535	1,010.0336
Waste						0.0000	0.0000		0.0000	0.0000	6.6987	0.0000	6.6987	0.3959	0.0000	16.5958
Water						0.0000	0.0000		0.0000	0.0000	1.4557	23.0671	24.5228	0.1506	3.6600e-003	29.3798
Total	0.8673	0.9019	6.1167	0.0115	1.0144	0.0206	1.0350	0.2706	0.0199	0.2905	8.1544	1,341.2741	1,349.4284	0.6468	0.0607	1,383.6898

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/9/2021	8/9/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 1.45

Residential Indoor: 0; Residential Outdoor: 0; 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	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Demolition - 2021

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

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

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.7156	0.7799	6.0130	0.0107	1.0144	0.0114	1.0258	0.2706	0.0106	0.2812	0.0000	991.8798	991.8798	0.0886	0.0535	1,010.0336
Unmitigated	0.7156	0.7799	6.0130	0.0107	1.0144	0.0114	1.0258	0.2706	0.0106	0.2812	0.0000	991.8798	991.8798	0.0886	0.0535	1,010.0336

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	900.96	900.96	900.96	1,282,637	1,282,637
Strip Mall	744.99	744.99	744.99	1,417,422	1,417,422
Total	1,645.96	1,645.96	1,645.96	2,700,058	2,700,058

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Quality Restaurant	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	193.5126	193.5126	9.2300e-003	1.1200e-003	194.0767
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	193.5126	193.5126	9.2300e-003	1.1200e-003	194.0767
NaturalGas Mitigated	0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	132.8121	132.8121	2.5500e-003	2.4300e-003	133.6014
NaturalGas Unmitigated	0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	132.8121	132.8121	2.5500e-003	2.4300e-003	133.6014

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.44259e+006	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	130.3460	130.3460	2.5000e-003	2.3900e-003	131.1206
Strip Mall	46213.8	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	5.0000e-005	5.0000e-005	2.4808
Total		0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	132.8121	132.8121	2.5500e-003	2.4400e-003	133.6014

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Land Use	kBTU/yr	tons/yr										MT/yr						
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.44259e+006	0.0132	0.1197	0.1006	7.2000e-004		9.1000e-003	9.1000e-003		9.1000e-003	9.1000e-003	0.0000	130.3460	130.3460	2.5000e-003	2.3900e-003	131.1206	
Strip Mall	46213.8	2.5000e-004	2.2700e-003	1.9000e-003	1.0000e-005		1.7000e-004	1.7000e-004		1.7000e-004	1.7000e-004	0.0000	2.4661	2.4661	5.0000e-005	5.0000e-005	2.4808	
Total		0.0134	0.1220	0.1025	7.3000e-004		9.2700e-003	9.2700e-003		9.2700e-003	9.2700e-003	0.0000	132.8121	132.8121	2.5500e-003	2.4400e-003	133.6014	

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	22175.6	6.9604	3.3000e-004	4.0000e-005	6.9807
Quality Restaurant	335876	105.4238	5.0300e-003	6.1000e-004	105.7311
Strip Mall	258472	81.1284	3.8700e-003	4.7000e-004	81.3649
Total		193.5126	9.2300e-003	1.1200e-003	194.0767

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	22175.6	6.9604	3.3000e-004	4.0000e-005	6.9807
Quality Restaurant	335876	105.4238	5.0300e-003	6.1000e-004	105.7311
Strip Mall	258472	81.1284	3.8700e-003	4.7000e-004	81.3649
Total		193.5126	9.2300e-003	1.1200e-003	194.0767

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003
Unmitigated	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003
Total	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0160					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1000e-004	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003
Total	0.1383	1.0000e-005	1.2300e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.3800e-003	2.3800e-003	1.0000e-005	0.0000	2.5400e-003

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	24.5228	0.1506	3.6600e-003	29.3798
Unmitigated	24.5228	0.1506	3.6600e-003	29.3798

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.86839 / 0.183089	13.2716	0.0941	2.2800e-003	16.3019
Strip Mall	1.71996 / 1.05417	11.2512	0.0566	1.3900e-003	13.0779
Total		24.5228	0.1506	3.6700e-003	29.3799

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Annual

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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	2.86839 / 0.183089	13.2716	0.0941	2.2800e-003	16.3019
Strip Mall	1.71996 / 1.05417	11.2512	0.0566	1.3900e-003	13.0779
Total		24.5228	0.1506	3.6700e-003	29.3799

8.0 Waste Detail

8.1 Mitigation Measures Waste

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Annual

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.6987	0.3959	0.0000	16.5958
Unmitigated	6.6987	0.3959	0.0000	16.5958

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	8.62	1.7498	0.1034	0.0000	4.3350
Strip Mall	24.38	4.9489	0.2925	0.0000	12.2607
Total		6.6987	0.3959	0.0000	16.5958

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Annual

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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	8.62	1.7498	0.1034	0.0000	4.3350
Strip Mall	24.38	4.9489	0.2925	0.0000	12.2607
Total		6.6987	0.3959	0.0000	16.5958

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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Sepulveda Centinela - Existing - Los Angeles-South Coast County, Annual

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

11.0 Vegetation

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

**Sepulveda Centinela - Existing
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	23.22	1000sqft	0.53	23,223.00	0
Quality Restaurant	9.45	1000sqft	0.22	9,448.00	0
Parking Lot	63.36	1000sqft	1.45	63,359.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing site emissions scenario - no construction

Land Use - Applicant info

Construction Phase - Existing site emissions scenario - no construction

Off-road Equipment - No construction

Vehicle Trips - LADOT Transportation Assessment MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	9/3/2021	8/9/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	90.04	95.36
tblVehicleTrips	ST_TR	42.04	32.08
tblVehicleTrips	SU_TR	71.97	95.36
tblVehicleTrips	SU_TR	20.43	32.08
tblVehicleTrips	WD_TR	83.84	95.36
tblVehicleTrips	WD_TR	44.32	32.08

2.0 Emissions Summary

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Energy	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
Mobile	4.1291	3.9384	32.9107	0.0609	5.6845	0.0624	5.7469	1.5142	0.0584	1.5725		6,205.2454	6,205.2454	0.5144	0.3081	6,309.9260
Total	4.9607	4.6069	33.4821	0.0649	5.6845	0.1133	5.7977	1.5142	0.1092	1.6234		7,007.4599	7,007.4599	0.5299	0.3228	7,116.9089

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Energy	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
Mobile	4.1291	3.9384	32.9107	0.0609	5.6845	0.0624	5.7469	1.5142	0.0584	1.5725		6,205.2454	6,205.2454	0.5144	0.3081	6,309.9260
Total	4.9607	4.6069	33.4821	0.0649	5.6845	0.1133	5.7977	1.5142	0.1092	1.6234		7,007.4599	7,007.4599	0.5299	0.3228	7,116.9089

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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
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	8/9/2021	8/9/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.45

Residential Indoor: 0; Residential Outdoor: 0; 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	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0000	0.0000	0.0000	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

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0000	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.1291	3.9384	32.9107	0.0609	5.6845	0.0624	5.7469	1.5142	0.0584	1.5725		6,205,245 4	6,205,245 4	0.5144	0.3081	6,309,926 0
Unmitigated	4.1291	3.9384	32.9107	0.0609	5.6845	0.0624	5.7469	1.5142	0.0584	1.5725		6,205,245 4	6,205,245 4	0.5144	0.3081	6,309,926 0

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	900.96	900.96	900.96	1,282,637	1,282,637
Strip Mall	744.99	744.99	744.99	1,417,422	1,417,422
Total	1,645.96	1,645.96	1,645.96	2,700,058	2,700,058

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Sepulveda Centinela - Existing - Los Angeles-South Coast 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	MCY	SBUS	MH
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Quality Restaurant	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
NaturalGas Unmitigated	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

Sepulveda Centinela - Existing - Los Angeles-South Coast 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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6692.03	0.0722	0.6561	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2978	787.2978	0.0151	0.0144	791.9763
Strip Mall	126.613	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8957	14.8957	2.9000e-004	2.7000e-004	14.9842
Total		0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

Sepulveda Centinela - Existing - Los Angeles-South Coast 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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6.69203	0.0722	0.6561	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2978	787.2978	0.0151	0.0144	791.9763
Strip Mall	0.126613	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8957	14.8957	2.9000e-004	2.7000e-004	14.9842
Total		0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

6.0 Area Detail

6.1 Mitigation Measures Area

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Unmitigated	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Total	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

Sepulveda Centinela - Existing - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Total	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Existing - Los Angeles-South Coast 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
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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

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

**Sepulveda Centinela - Existing
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Strip Mall	23.22	1000sqft	0.53	23,223.00	0
Quality Restaurant	9.45	1000sqft	0.22	9,448.00	0
Parking Lot	63.36	1000sqft	1.45	63,359.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2021
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing site emissions scenario - no construction

Land Use - Applicant info

Construction Phase - Existing site emissions scenario - no construction

Off-road Equipment - No construction

Vehicle Trips - LADOT Transportation Assessment MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	1.00
tblConstructionPhase	PhaseEndDate	9/3/2021	8/9/2021
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblVehicleTrips	ST_TR	90.04	95.36
tblVehicleTrips	ST_TR	42.04	32.08
tblVehicleTrips	SU_TR	71.97	95.36
tblVehicleTrips	SU_TR	20.43	32.08
tblVehicleTrips	WD_TR	83.84	95.36
tblVehicleTrips	WD_TR	44.32	32.08

2.0 Emissions Summary

Sepulveda Centinela - Existing - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Energy	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
Mobile	4.0287	4.2383	32.8892	0.0583	5.6845	0.0625	5.7470	1.5142	0.0584	1.5726		5,944.4348	5,944.4348	0.5412	0.3232	6,054.2687
Total	4.8603	4.9068	33.4606	0.0623	5.6845	0.1134	5.7978	1.5142	0.1093	1.6234		6,746.6493	6,746.6493	0.5566	0.3379	6,861.2516

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Energy	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
Mobile	4.0287	4.2383	32.8892	0.0583	5.6845	0.0625	5.7470	1.5142	0.0584	1.5726		5,944.4348	5,944.4348	0.5412	0.3232	6,054.2687
Total	4.8603	4.9068	33.4606	0.0623	5.6845	0.1134	5.7978	1.5142	0.1093	1.6234		6,746.6493	6,746.6493	0.5566	0.3379	6,861.2516

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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
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	8/9/2021	8/9/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.45

Residential Indoor: 0; Residential Outdoor: 0; 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	0	8.00	81	0.73
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	0	8.00	97	0.37

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	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
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

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0000	0.0000	0.0000	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

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2021

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
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

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0000	0.0000	0.0000	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

4.0 Operational Detail - Mobile

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	4.0287	4.2383	32.8892	0.0583	5.6845	0.0625	5.7470	1.5142	0.0584	1.5726		5,944.4348	5,944.4348	0.5412	0.3232	6,054.2687
Unmitigated	4.0287	4.2383	32.8892	0.0583	5.6845	0.0625	5.7470	1.5142	0.0584	1.5726		5,944.4348	5,944.4348	0.5412	0.3232	6,054.2687

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	900.96	900.96	900.96	1,282,637	1,282,637
Strip Mall	744.99	744.99	744.99	1,417,422	1,417,422
Total	1,645.96	1,645.96	1,645.96	2,700,058	2,700,058

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
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Sepulveda Centinela - Existing - Los Angeles-South Coast 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	MCY	SBUS	MH
Parking Lot	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Quality Restaurant	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425
Strip Mall	0.548812	0.060892	0.186048	0.127862	0.022726	0.005730	0.010818	0.008022	0.000956	0.000624	0.023397	0.000686	0.003425

5.0 Energy Detail

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
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605
NaturalGas Unmitigated	0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6692.03	0.0722	0.6561	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2978	787.2978	0.0151	0.0144	791.9763
Strip Mall	126.613	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8957	14.8957	2.9000e-004	2.7000e-004	14.9842
Total		0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	6.69203	0.0722	0.6561	0.5511	3.9400e-003		0.0499	0.0499		0.0499	0.0499		787.2978	787.2978	0.0151	0.0144	791.9763
Strip Mall	0.126613	1.3700e-003	0.0124	0.0104	7.0000e-005		9.4000e-004	9.4000e-004		9.4000e-004	9.4000e-004		14.8957	14.8957	2.9000e-004	2.7000e-004	14.9842
Total		0.0735	0.6685	0.5615	4.0100e-003		0.0508	0.0508		0.0508	0.0508		802.1935	802.1935	0.0154	0.0147	806.9605

6.0 Area Detail

6.1 Mitigation Measures Area

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Unmitigated	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Total	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0878					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.6693					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	9.2000e-004	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224
Total	0.7581	9.0000e-005	9.8400e-003	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005		0.0210	0.0210	6.0000e-005		0.0224

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Existing - Los Angeles-South Coast County, Winter

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
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11.0 Vegetation

Sepulveda Centinela - Future - Los Angeles-South Coast County, Annual

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

**Sepulveda Centinela - Future
Los Angeles-South Coast County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Enclosed Parking with Elevator	210.21	1000sqft	0.00	210,205.00	0
Apartments Mid Rise	362.00	Dwelling Unit	2.04	387,156.00	1035

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info. Analysis does not include sewer relocation.

Land Use - Existing restaurant to remain excluded from lot acreage and square footage calculations.

Construction Phase - Construction schedule does not include sewer relocation.

Off-road Equipment - Consultant assumptions

Off-road Equipment - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Grading - Applicant info

Demolition - Assumes 1647 CY asphalt @ 773lb per CY. Assumes 11372 CY C&D debris @ 484lb per CY.

Trips and VMT - Consultant assumptions.

Sepulveda Centinela - Future - Los Angeles-South Coast County, Annual

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

Vehicle Trips - Per Project's LADOT MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Woodstoves - No hearths.

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

Landscape Equipment -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	80
tblConstructionPhase	NumDays	10.00	195.00
tblConstructionPhase	NumDays	220.00	630.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	6.00	98.00
tblConstructionPhase	PhaseEndDate	5/9/2024	2/27/2026
tblConstructionPhase	PhaseEndDate	4/11/2024	5/29/2026
tblConstructionPhase	PhaseEndDate	5/26/2023	8/15/2023
tblConstructionPhase	PhaseEndDate	6/8/2023	12/29/2023
tblConstructionPhase	PhaseStartDate	4/26/2024	6/1/2025
tblConstructionPhase	PhaseStartDate	6/9/2023	1/1/2024
tblConstructionPhase	PhaseStartDate	6/1/2023	8/16/2023
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	307.70	0.00
tblFireplaces	NumberNoFireplace	36.20	0.00
tblFireplaces	NumberWood	18.10	0.00
tblGrading	AcresOfGrading	98.00	2.04
tblGrading	MaterialExported	0.00	30,000.00
tblLandUse	LandUseSquareFeet	362,000.00	387,156.00
tblLandUse	LotAcreage	0.08	0.00

Sepulveda Centinela - Future - Los Angeles-South Coast County, Annual

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

tblLandUse	LotAcreage	4.83	0.00
tblLandUse	LotAcreage	9.53	2.04
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	ST_TR	4.91	4.16
tblVehicleTrips	ST_TR	122.40	68.60
tblVehicleTrips	SU_TR	4.09	4.16
tblVehicleTrips	SU_TR	142.64	68.60
tblVehicleTrips	WD_TR	5.44	4.16
tblVehicleTrips	WD_TR	112.18	68.60
tblWoodstoves	NumberCatalytic	18.10	0.00
tblWoodstoves	NumberNoncatalytic	18.10	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

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tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0844	1.3251	0.8862	3.9500e-003	0.1180	0.0363	0.1543	0.0275	0.0335	0.0610	0.0000	374.8866	374.8866	0.0568	0.0372	387.3897
2024	0.3555	2.1744	3.4429	9.2900e-003	0.5635	0.0753	0.6388	0.1511	0.0720	0.2231	0.0000	834.3352	834.3352	0.0662	0.0347	846.3273
2025	1.3459	2.1477	3.6109	9.7900e-003	0.6201	0.0703	0.6903	0.1661	0.0673	0.2334	0.0000	878.2902	878.2902	0.0664	0.0345	890.2418
2026	0.4109	0.8622	1.4025	3.8500e-003	0.2463	0.0282	0.2744	0.0660	0.0270	0.0929	0.0000	345.1634	345.1634	0.0266	0.0136	349.8825
Maximum	1.3459	2.1744	3.6109	9.7900e-003	0.6201	0.0753	0.6903	0.1661	0.0720	0.2334	0.0000	878.2902	878.2902	0.0664	0.0372	890.2418

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2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2023	0.0844	1.3251	0.8862	3.9500e-003	0.0483	0.0363	0.0845	0.0124	0.0335	0.0459	0.0000	374.8865	374.8865	0.0568	0.0372	387.3895
2024	0.3555	2.1744	3.4429	9.2900e-003	0.1806	0.0753	0.2559	0.0571	0.0720	0.1291	0.0000	834.3349	834.3349	0.0662	0.0347	846.3270
2025	1.3459	2.1477	3.6109	9.7900e-003	0.1979	0.0703	0.2682	0.0625	0.0673	0.1298	0.0000	878.2898	878.2898	0.0664	0.0345	890.2415
2026	0.4109	0.8622	1.4025	3.8500e-003	0.0787	0.0282	0.1069	0.0249	0.0270	0.0518	0.0000	345.1632	345.1632	0.0266	0.0136	349.8823
Maximum	1.3459	2.1744	3.6109	9.7900e-003	0.1979	0.0753	0.2682	0.0625	0.0720	0.1298	0.0000	878.2898	878.2898	0.0664	0.0372	890.2415

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	67.35	0.00	59.30	61.82	0.00	41.58	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	5-1-2023	7-31-2023	0.2049	0.2049
2	8-1-2023	10-31-2023	0.6786	0.6786
3	11-1-2023	1-31-2024	0.7137	0.7137
4	2-1-2024	4-30-2024	0.6197	0.6197
5	5-1-2024	7-31-2024	0.6272	0.6272
6	8-1-2024	10-31-2024	0.6304	0.6304
7	11-1-2024	1-31-2025	0.6247	0.6247
8	2-1-2025	4-30-2025	0.5788	0.5788

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9	5-1-2025	7-31-2025	0.9090	0.9090
10	8-1-2025	10-31-2025	1.0733	1.0733
11	11-1-2025	1-31-2026	1.0780	1.0780
12	2-1-2026	4-30-2026	0.7144	0.7144
13	5-1-2026	7-31-2026	0.1853	0.1853
		Highest	1.0780	1.0780

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497
Energy	0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	1,102.2524	1,102.2524	0.0450	9.7200e-003	1,106.2719
Mobile	0.9329	1.0529	9.7785	0.0220	2.4840	0.0158	2.4998	0.6628	0.0147	0.6774	0.0000	2,038.6303	2,038.6303	0.1376	0.0867	2,067.9051
Waste						0.0000	0.0000		0.0000	0.0000	42.7398	0.0000	42.7398	2.5259	0.0000	105.8859
Water						0.0000	0.0000		0.0000	0.0000	7.8390	153.0865	160.9255	0.8124	0.0199	187.1654
Total	2.6237	1.3287	13.6294	0.0237	2.4840	0.0551	2.5391	0.6628	0.0540	0.7167	50.5787	3,300.0725	3,350.6512	3.5267	0.1163	3,473.4780

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497
Energy	0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	1,102.2524	1,102.2524	0.0450	9.7200e-003	1,106.2719
Mobile	0.9329	1.0529	9.7785	0.0220	2.4840	0.0158	2.4998	0.6628	0.0147	0.6774	0.0000	2,038.6303	2,038.6303	0.1376	0.0867	2,067.9051
Waste						0.0000	0.0000		0.0000	0.0000	42.7398	0.0000	42.7398	2.5259	0.0000	105.8859
Water						0.0000	0.0000		0.0000	0.0000	7.8390	153.0865	160.9255	0.8124	0.0199	187.1654
Total	2.6237	1.3287	13.6294	0.0237	2.4840	0.0551	2.5391	0.6628	0.0540	0.7167	50.5787	3,300.0725	3,350.6512	3.5267	0.1163	3,473.4780

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	5/1/2023	8/15/2023	5	77	
2	Grading	Grading	8/16/2023	12/29/2023	5	98	
3	Building Construction	Building Construction	1/1/2024	5/29/2026	5	630	

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4	Architectural Coating	Architectural Coating	6/1/2025	2/27/2026	5	195
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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.04

Acres of Paving: 0

Residential Indoor: 783,991; Residential Outdoor: 261,330; Non-Residential Indoor: 5,550; Non-Residential Outdoor: 1,850; Striped Parking Area: 12,612 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Grading	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

Trips and VMT

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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	3	8.00	0.00	335.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	3,750.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	350.00	74.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0363	0.0000	0.0363	5.4900e-003	0.0000	5.4900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0190	0.1782	0.2979	4.4000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	38.6204	38.6204	0.0125	0.0000	38.9327
Total	0.0190	0.1782	0.2979	4.4000e-004	0.0363	8.7700e-003	0.0450	5.4900e-003	8.0700e-003	0.0136	0.0000	38.6204	38.6204	0.0125	0.0000	38.9327

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3.2 Demolition - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0430	9.2000e-003	1.9000e-004	5.7600e-003	2.7000e-004	6.0300e-003	1.5800e-003	2.6000e-004	1.8400e-003	0.0000	19.1110	19.1110	1.0600e-003	3.0400e-003	20.0421
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	9.8000e-004	7.8000e-004	0.0105	3.0000e-005	3.3800e-003	2.0000e-005	3.4000e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.6865	2.6865	7.0000e-005	7.0000e-005	2.7091
Total	1.5200e-003	0.0437	0.0197	2.2000e-004	9.1400e-003	2.9000e-004	9.4300e-003	2.4800e-003	2.8000e-004	2.7600e-003	0.0000	21.7975	21.7975	1.1300e-003	3.1100e-003	22.7512

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0163	0.0000	0.0163	2.4700e-003	0.0000	2.4700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0190	0.1782	0.2979	4.4000e-004		8.7700e-003	8.7700e-003		8.0700e-003	8.0700e-003	0.0000	38.6204	38.6204	0.0125	0.0000	38.9326
Total	0.0190	0.1782	0.2979	4.4000e-004	0.0163	8.7700e-003	0.0251	2.4700e-003	8.0700e-003	0.0105	0.0000	38.6204	38.6204	0.0125	0.0000	38.9326

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3.2 Demolition - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0430	9.2000e-003	1.9000e-004	2.3000e-003	2.7000e-004	2.5700e-003	7.3000e-004	2.6000e-004	9.9000e-004	0.0000	19.1110	19.1110	1.0600e-003	3.0400e-003	20.0421
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	9.8000e-004	7.8000e-004	0.0105	3.0000e-005	1.0300e-003	2.0000e-005	1.0600e-003	3.2000e-004	2.0000e-005	3.4000e-004	0.0000	2.6865	2.6865	7.0000e-005	7.0000e-005	2.7091
Total	1.5200e-003	0.0437	0.0197	2.2000e-004	3.3300e-003	2.9000e-004	3.6300e-003	1.0500e-003	2.8000e-004	1.3300e-003	0.0000	21.7975	21.7975	1.1300e-003	3.1100e-003	22.7512

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7800e-003	0.0000	2.7800e-003	3.7000e-004	0.0000	3.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.6212	0.4490	1.1000e-003		0.0241	0.0241		0.0222	0.0222	0.0000	96.2659	96.2659	0.0311	0.0000	97.0443
Total	0.0563	0.6212	0.4490	1.1000e-003	2.7800e-003	0.0241	0.0269	3.7000e-004	0.0222	0.0226	0.0000	96.2659	96.2659	0.0311	0.0000	97.0443

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3.3 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-003	0.4808	0.1030	2.1500e-003	0.0645	3.0700e-003	0.0676	0.0177	2.9400e-003	0.0206	0.0000	213.9288	213.9288	0.0119	0.0340	224.3515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.2300e-003	0.0167	5.0000e-005	5.3700e-003	3.0000e-005	5.4000e-003	1.4300e-003	3.0000e-005	1.4600e-003	0.0000	4.2740	4.2740	1.1000e-004	1.1000e-004	4.3100
Total	7.5500e-003	0.4820	0.1197	2.2000e-003	0.0699	3.1000e-003	0.0730	0.0191	2.9700e-003	0.0221	0.0000	218.2028	218.2028	0.0120	0.0341	228.6615

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2500e-003	0.0000	1.2500e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0563	0.6212	0.4490	1.1000e-003		0.0241	0.0241		0.0222	0.0222	0.0000	96.2658	96.2658	0.0311	0.0000	97.0442
Total	0.0563	0.6212	0.4490	1.1000e-003	1.2500e-003	0.0241	0.0254	1.7000e-004	0.0222	0.0224	0.0000	96.2658	96.2658	0.0311	0.0000	97.0442

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

3.3 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	6.0000e-003	0.4808	0.1030	2.1500e-003	0.0257	3.0700e-003	0.0288	8.1900e-003	2.9400e-003	0.0111	0.0000	213.9288	213.9288	0.0119	0.0340	224.3515
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.5500e-003	1.2300e-003	0.0167	5.0000e-005	1.6500e-003	3.0000e-005	1.6800e-003	5.1000e-004	3.0000e-005	5.4000e-004	0.0000	4.2740	4.2740	1.1000e-004	1.1000e-004	4.3100
Total	7.5500e-003	0.4820	0.1197	2.2000e-003	0.0274	3.1000e-003	0.0305	8.7000e-003	2.9700e-003	0.0117	0.0000	218.2028	218.2028	0.0120	0.0341	228.6615

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1052	272.1052	0.0507	0.0000	273.3722
Total	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1052	272.1052	0.0507	0.0000	273.3722

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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 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3915	0.1432	1.7800e-003	0.0611	1.8900e-003	0.0630	0.0176	1.8100e-003	0.0194	0.0000	173.6140	173.6140	5.9100e-003	0.0250	181.2148
Worker	0.1357	0.1030	1.4526	4.2400e-003	0.5024	2.9500e-003	0.5054	0.1334	2.7200e-003	0.1362	0.0000	388.6160	388.6160	9.6300e-003	9.6800e-003	391.7403
Total	0.1463	0.4945	1.5958	6.0200e-003	0.5635	4.8400e-003	0.5684	0.1511	4.5300e-003	0.1556	0.0000	562.2300	562.2300	0.0155	0.0347	572.9551

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1049	272.1049	0.0507	0.0000	273.3719
Total	0.2092	1.6799	1.8471	3.2800e-003		0.0705	0.0705		0.0675	0.0675	0.0000	272.1049	272.1049	0.0507	0.0000	273.3719

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3.4 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0106	0.3915	0.1432	1.7800e-003	0.0265	1.8900e-003	0.0284	9.1500e-003	1.8100e-003	0.0110	0.0000	173.6140	173.6140	5.9100e-003	0.0250	181.2148
Worker	0.1357	0.1030	1.4526	4.2400e-003	0.1540	2.9500e-003	0.1570	0.0479	2.7200e-003	0.0507	0.0000	388.6160	388.6160	9.6300e-003	9.6800e-003	391.7403
Total	0.1463	0.4945	1.5958	6.0200e-003	0.1806	4.8400e-003	0.1854	0.0571	4.5300e-003	0.0616	0.0000	562.2300	562.2300	0.0155	0.0347	572.9551

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0946	271.0946	0.0497	0.0000	272.3375
Total	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0946	271.0946	0.0497	0.0000	272.3375

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3.4 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.3881	0.1400	1.7400e-003	0.0609	1.8900e-003	0.0628	0.0176	1.8000e-003	0.0194	0.0000	169.8398	169.8398	5.9300e-003	0.0245	177.2837
Worker	0.1265	0.0921	1.3466	4.0800e-003	0.5005	2.8000e-003	0.5033	0.1329	2.5800e-003	0.1355	0.0000	373.9778	373.9778	8.6600e-003	9.0000e-003	376.8761
Total	0.1368	0.4802	1.4866	5.8200e-003	0.5614	4.6900e-003	0.5661	0.1505	4.3800e-003	0.1549	0.0000	543.8175	543.8175	0.0146	0.0335	554.1598

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0943	271.0943	0.0497	0.0000	272.3372
Total	0.1944	1.5690	1.8279	3.2700e-003		0.0613	0.0613		0.0587	0.0587	0.0000	271.0943	271.0943	0.0497	0.0000	272.3372

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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 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0103	0.3881	0.1400	1.7400e-003	0.0264	1.8900e-003	0.0283	9.1100e-003	1.8000e-003	0.0109	0.0000	169.8398	169.8398	5.9300e-003	0.0245	177.2837
Worker	0.1265	0.0921	1.3466	4.0800e-003	0.1535	2.8000e-003	0.1563	0.0478	2.5800e-003	0.0503	0.0000	373.9778	373.9778	8.6600e-003	9.0000e-003	376.8761
Total	0.1368	0.4802	1.4866	5.8200e-003	0.1799	4.6900e-003	0.1846	0.0569	4.3800e-003	0.0613	0.0000	543.8175	543.8175	0.0146	0.0335	554.1598

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0797	0.6433	0.7494	1.3400e-003		0.0251	0.0251		0.0241	0.0241	0.0000	111.1384	111.1384	0.0204	0.0000	111.6480
Total	0.0797	0.6433	0.7494	1.3400e-003		0.0251	0.0251		0.0241	0.0241	0.0000	111.1384	111.1384	0.0204	0.0000	111.6480

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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 Building Construction - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-003	0.1579	0.0566	7.0000e-004	0.0250	7.7000e-004	0.0257	7.2000e-003	7.4000e-004	7.9400e-003	0.0000	68.3363	68.3363	2.4500e-003	9.8600e-003	71.3344
Worker	0.0488	0.0343	0.5179	1.6200e-003	0.2052	1.0900e-003	0.2063	0.0545	1.0000e-003	0.0555	0.0000	148.6566	148.6566	3.2300e-003	3.4800e-003	149.7731
Total	0.0529	0.1922	0.5745	2.3200e-003	0.2301	1.8600e-003	0.2320	0.0617	1.7400e-003	0.0634	0.0000	216.9929	216.9929	5.6800e-003	0.0133	221.1075

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0797	0.6433	0.7494	1.3400e-003		0.0251	0.0251		0.0241	0.0241	0.0000	111.1383	111.1383	0.0204	0.0000	111.6478
Total	0.0797	0.6433	0.7494	1.3400e-003		0.0251	0.0251		0.0241	0.0241	0.0000	111.1383	111.1383	0.0204	0.0000	111.6478

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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 Building Construction - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.1000e-003	0.1579	0.0566	7.0000e-004	0.0108	7.7000e-004	0.0116	3.7400e-003	7.4000e-004	4.4700e-003	0.0000	68.3363	68.3363	2.4500e-003	9.8600e-003	71.3344
Worker	0.0488	0.0343	0.5179	1.6200e-003	0.0629	1.0900e-003	0.0640	0.0196	1.0000e-003	0.0206	0.0000	148.6566	148.6566	3.2300e-003	3.4800e-003	149.7731
Total	0.0529	0.1922	0.5745	2.3200e-003	0.0737	1.8600e-003	0.0756	0.0233	1.7400e-003	0.0251	0.0000	216.9929	216.9929	5.6800e-003	0.0133	221.1075

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9868					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	0.9998	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

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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 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0148	0.0108	0.1579	4.8000e-004	0.0587	3.3000e-004	0.0590	0.0156	3.0000e-004	0.0159	0.0000	43.8457	43.8457	1.0200e-003	1.0600e-003	44.1855
Total	0.0148	0.0108	0.1579	4.8000e-004	0.0587	3.3000e-004	0.0590	0.0156	3.0000e-004	0.0159	0.0000	43.8457	43.8457	1.0200e-003	1.0600e-003	44.1855

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.9868					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0131	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590
Total	0.9998	0.0876	0.1384	2.3000e-004		3.9400e-003	3.9400e-003		3.9400e-003	3.9400e-003	0.0000	19.5324	19.5324	1.0700e-003	0.0000	19.5590

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3.5 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0148	0.0108	0.1579	4.8000e-004	0.0180	3.3000e-004	0.0183	5.6000e-003	3.0000e-004	5.9000e-003	0.0000	43.8457	43.8457	1.0200e-003	1.0600e-003	44.1855
Total	0.0148	0.0108	0.1579	4.8000e-004	0.0180	3.3000e-004	0.0183	5.6000e-003	3.0000e-004	5.9000e-003	0.0000	43.8457	43.8457	1.0200e-003	1.0600e-003	44.1855

3.5 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	0.2745	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

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3.5 Architectural Coating - 2026

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.6900e-003	0.0407	1.3000e-004	0.0161	9.0000e-005	0.0162	4.2800e-003	8.0000e-005	4.3600e-003	0.0000	11.6702	11.6702	2.5000e-004	2.7000e-004	11.7579
Total	3.8300e-003	2.6900e-003	0.0407	1.3000e-004	0.0161	9.0000e-005	0.0162	4.2800e-003	8.0000e-005	4.3600e-003	0.0000	11.6702	11.6702	2.5000e-004	2.7000e-004	11.7579

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2709					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.5900e-003	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691
Total	0.2745	0.0241	0.0380	6.0000e-005		1.0800e-003	1.0800e-003		1.0800e-003	1.0800e-003	0.0000	5.3618	5.3618	2.9000e-004	0.0000	5.3691

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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 Architectural Coating - 2026

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.8300e-003	2.6900e-003	0.0407	1.3000e-004	4.9400e-003	9.0000e-005	5.0200e-003	1.5400e-003	8.0000e-005	1.6200e-003	0.0000	11.6702	11.6702	2.5000e-004	2.7000e-004	11.7579
Total	3.8300e-003	2.6900e-003	0.0407	1.3000e-004	4.9400e-003	9.0000e-005	5.0200e-003	1.5400e-003	8.0000e-005	1.6200e-003	0.0000	11.6702	11.6702	2.5000e-004	2.7000e-004	11.7579

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.9329	1.0529	9.7785	0.0220	2.4840	0.0158	2.4998	0.6628	0.0147	0.6774	0.0000	2,038.6303	2,038.6303	0.1376	0.0867	2,067.9051
Unmitigated	0.9329	1.0529	9.7785	0.0220	2.4840	0.0158	2.4998	0.6628	0.0147	0.6774	0.0000	2,038.6303	2,038.6303	0.1376	0.0867	2,067.9051

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,505.92	1,505.92	1505.92	5,796,409	5,796,409
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	253.82	253.82	253.82	814,145	814,145
Total	1,759.74	1,759.74	1,759.74	6,610,554	6,610,554

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
Enclosed Parking with Elevator	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

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

High Turnover (Sit Down Restaurant)	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	835.8216	835.8216	0.0399	4.8300e-003	838.2579
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	835.8216	835.8216	0.0399	4.8300e-003	838.2579
NaturalGas Mitigated	0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.4307	266.4307	5.1100e-003	4.8800e-003	268.0140
NaturalGas Unmitigated	0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.4307	266.4307	5.1100e-003	4.8800e-003	268.0140

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.03616e+006	0.0218	0.1860	0.0791	1.1900e-003		0.0150	0.0150		0.0150	0.0150	0.0000	215.3850	215.3850	4.1300e-003	3.9500e-003	216.6649
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	956561	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0457	51.0457	9.8000e-004	9.4000e-004	51.3491
Total		0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.4307	266.4307	5.1100e-003	4.8900e-003	268.0140

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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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Mid Rise	4.03616e+006	0.0218	0.1860	0.0791	1.1900e-003		0.0150	0.0150		0.0150	0.0150	0.0000	215.3850	215.3850	4.1300e-003	3.9500e-003	216.6649
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	956561	5.1600e-003	0.0469	0.0394	2.8000e-004		3.5600e-003	3.5600e-003		3.5600e-003	3.5600e-003	0.0000	51.0457	51.0457	9.8000e-004	9.4000e-004	51.3491
Total		0.0269	0.2329	0.1185	1.4700e-003		0.0186	0.0186		0.0186	0.0186	0.0000	266.4307	266.4307	5.1100e-003	4.8900e-003	268.0140

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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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.38785e+006	435.6129	0.0208	2.5200e-003	436.8826
Enclosed Parking with Elevator	1.14352e+006	358.9230	0.0171	2.0700e-003	359.9691
High Turnover (Sit Down Restaurant)	131535	41.2858	1.9700e-003	2.4000e-004	41.4061
Total		835.8216	0.0399	4.8300e-003	838.2579

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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

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Mid Rise	1.38785e+006	435.6129	0.0208	2.5200e-003	436.8826
Enclosed Parking with Elevator	1.14352e+006	358.9230	0.0171	2.0700e-003	359.9691
High Turnover (Sit Down Restaurant)	131535	41.2858	1.9700e-003	2.4000e-004	41.4061
Total		835.8216	0.0399	4.8300e-003	838.2579

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497
Unmitigated	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1122	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497
Total	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497

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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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.1258					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.4260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1122	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497
Total	1.6639	0.0430	3.7324	2.0000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	6.1034	6.1034	5.8500e-003	0.0000	6.2497

7.0 Water Detail

7.1 Mitigation Measures Water

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

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	160.9255	0.8124	0.0199	187.1654
Unmitigated	160.9255	0.8124	0.0199	187.1654

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	155.7292	0.7756	0.0190	180.7826
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.12307 / 0.0716856	5.1963	0.0368	8.9000e-004	6.3828
Total		160.9255	0.8124	0.0199	187.1654

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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

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Mid Rise	23.5858 / 14.8693	155.7292	0.7756	0.0190	180.7826
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	1.12307 / 0.0716856	5.1963	0.0368	8.9000e-004	6.3828
Total		160.9255	0.8124	0.0199	187.1654

8.0 Waste Detail

8.1 Mitigation Measures Waste

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

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.7398	2.5259	0.0000	105.8859
Unmitigated	42.7398	2.5259	0.0000	105.8859

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	44.03	8.9377	0.5282	0.0000	22.1428
Total		42.7398	2.5258	0.0000	105.8859

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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

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Mid Rise	166.52	33.8021	1.9976	0.0000	83.7432
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	44.03	8.9377	0.5282	0.0000	22.1428
Total		42.7398	2.5258	0.0000	105.8859

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

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

**Sepulveda Centinela - Future
Los Angeles-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Enclosed Parking with Elevator	210.21	1000sqft	0.00	210,205.00	0
Apartments Mid Rise	362.00	Dwelling Unit	2.04	387,156.00	1035

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info. Analysis does not include sewer relocation.

Land Use - Existing restaurant to remain excluded from lot acreage and square footage calculations.

Construction Phase - Construction schedule does not include sewer relocation.

Off-road Equipment - Consultant assumptions

Off-road Equipment - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Grading - Applicant info

Demolition - Assumes 1647 CY asphalt @ 773lb per CY. Assumes 11372 CY C&D debris @ 484lb per CY.

Trips and VMT - Consultant assumptions.

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

Vehicle Trips - Per Project's LADOT MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Woodstoves - No hearths.

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

Landscape Equipment -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	80
tblConstructionPhase	NumDays	10.00	195.00
tblConstructionPhase	NumDays	220.00	630.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	6.00	98.00
tblConstructionPhase	PhaseEndDate	5/9/2024	2/27/2026
tblConstructionPhase	PhaseEndDate	4/11/2024	5/29/2026
tblConstructionPhase	PhaseEndDate	5/26/2023	8/15/2023
tblConstructionPhase	PhaseEndDate	6/8/2023	12/29/2023
tblConstructionPhase	PhaseStartDate	4/26/2024	6/1/2025
tblConstructionPhase	PhaseStartDate	6/9/2023	1/1/2024
tblConstructionPhase	PhaseStartDate	6/1/2023	8/16/2023
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	307.70	0.00
tblFireplaces	NumberNoFireplace	36.20	0.00
tblFireplaces	NumberWood	18.10	0.00
tblGrading	AcresOfGrading	98.00	2.04
tblGrading	MaterialExported	0.00	30,000.00
tblLandUse	LandUseSquareFeet	362,000.00	387,156.00
tblLandUse	LotAcreage	0.08	0.00

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

tblLandUse	LotAcreage	4.83	0.00
tblLandUse	LotAcreage	9.53	2.04
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	ST_TR	4.91	4.16
tblVehicleTrips	ST_TR	122.40	68.60
tblVehicleTrips	SU_TR	4.09	4.16
tblVehicleTrips	SU_TR	142.64	68.60
tblVehicleTrips	WD_TR	5.44	4.16
tblVehicleTrips	WD_TR	112.18	68.60
tblWoodstoves	NumberCatalytic	18.10	0.00
tblWoodstoves	NumberNoncatalytic	18.10	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

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

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.3064	21.9977	11.6194	0.0671	1.5073	0.5553	2.0625	0.4043	0.5132	0.9174	0.0000	7,077.1085	7,077.1085	0.9709	0.7665	7,329.7813
2024	2.7233	16.3666	26.9310	0.0722	4.3862	0.5750	4.9611	1.1740	0.5498	1.7238	0.0000	7,150.5415	7,150.5415	0.5562	0.2852	7,249.4426
2025	15.8103	16.7525	29.9914	0.0803	5.1686	0.5616	5.7302	1.3815	0.5388	1.9203	0.0000	7,947.1223	7,947.1223	0.5719	0.2907	8,048.0382
2026	15.7383	16.6623	29.1594	0.0789	5.1686	0.5603	5.7289	1.3815	0.5375	1.9191	0.0000	7,800.4431	7,800.4431	0.5642	0.2821	7,898.6152
Maximum	15.8103	21.9977	29.9914	0.0803	5.1686	0.5750	5.7302	1.3815	0.5498	1.9203	0.0000	7,947.1223	7,947.1223	0.9709	0.7665	8,048.0382

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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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Energy	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
Mobile	5.2904	5.2859	54.4237	0.1250	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,752.7569	12,752.7569	0.8168	0.5007	12,922.3810
Total	14.8383	6.9058	84.9321	0.1347	13.9196	0.3545	14.2741	3.7081	0.3483	4.0564	0.0000	14,415.8379	14,415.8379	0.8993	0.5302	14,596.3154

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Energy	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
Mobile	5.2904	5.2859	54.4237	0.1250	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,752.7569	12,752.7569	0.8168	0.5007	12,922.3810
Total	14.8383	6.9058	84.9321	0.1347	13.9196	0.3545	14.2741	3.7081	0.3483	4.0564	0.0000	14,415.8379	14,415.8379	0.8993	0.5302	14,596.3154

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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
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	5/1/2023	8/15/2023	5	77	
2	Grading	Grading	8/16/2023	12/29/2023	5	98	
3	Building Construction	Building Construction	1/1/2024	5/29/2026	5	630	
4	Architectural Coating	Architectural Coating	6/1/2025	2/27/2026	5	195	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.04

Acres of Paving: 0

Residential Indoor: 783,991; Residential Outdoor: 261,330; Non-Residential Indoor: 5,550; Non-Residential Outdoor: 1,850; Striped Parking Area: 12,612 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

Grading	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	3	8.00	0.00	335.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	3,750.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	350.00	74.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9418	0.0000	0.9418	0.1426	0.0000	0.1426			0.0000			0.0000
Off-Road	0.4923	4.6277	7.7367	0.0114		0.2278	0.2278		0.2096	0.2096		1,105.759 2	1,105.759 2	0.3576		1,114.699 8
Total	0.4923	4.6277	7.7367	0.0114	0.9418	0.2278	1.1696	0.1426	0.2096	0.3522		1,105.759 2	1,105.759 2	0.3576		1,114.699 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	1.0571	0.2382	4.9800e-003	0.1522	7.1200e-003	0.1593	0.0417	6.8100e-003	0.0485		547.0517	547.0517	0.0305	0.0869	573.7036
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	0.0256	0.0179	0.2891	7.9000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	0.0398	1.0750	0.5273	5.7700e-003	0.2416	7.6600e-003	0.2493	0.0654	7.3100e-003	0.0727		627.0577	627.0577	0.0325	0.0887	654.3103

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4238	0.0000	0.4238	0.0642	0.0000	0.0642			0.0000			0.0000
Off-Road	0.4923	4.6277	7.7367	0.0114		0.2278	0.2278		0.2096	0.2096	0.0000	1,105.759 2	1,105.759 2	0.3576		1,114.699 8
Total	0.4923	4.6277	7.7367	0.0114	0.4238	0.2278	0.6516	0.0642	0.2096	0.2738	0.0000	1,105.759 2	1,105.759 2	0.3576		1,114.699 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0142	1.0571	0.2382	4.9800e-003	0.0602	7.1200e-003	0.0673	0.0191	6.8100e-003	0.0260		547.0517	547.0517	0.0305	0.0869	573.7036
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	0.0256	0.0179	0.2891	7.9000e-004	0.0272	5.4000e-004	0.0278	8.4500e-003	5.0000e-004	8.9400e-003		80.0060	80.0060	2.0200e-003	1.8500e-003	80.6067
Total	0.0398	1.0750	0.5273	5.7700e-003	0.0874	7.6600e-003	0.0951	0.0276	7.3100e-003	0.0349		627.0577	627.0577	0.0325	0.0887	654.3103

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0567	0.0000	0.0567	7.6300e-003	0.0000	7.6300e-003			0.0000			0.0000
Off-Road	1.1497	12.6777	9.1627	0.0224		0.4920	0.4920		0.4527	0.4527		2,165.6125	2,165.6125	0.7004		2,183.1226
Total	1.1497	12.6777	9.1627	0.0224	0.0567	0.4920	0.5487	7.6300e-003	0.4527	0.4603		2,165.6125	2,165.6125	0.7004		2,183.1226

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1247	9.2977	2.0952	0.0438	1.3388	0.0626	1.4014	0.3670	0.0599	0.4269		4,811.4885	4,811.4885	0.2680	0.7641	5,045.9004
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	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.1567	9.3200	2.4566	0.0448	1.4506	0.0633	1.5138	0.3966	0.0605	0.4571		4,911.4960	4,911.4960	0.2705	0.7665	5,146.6587

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0255	0.0000	0.0255	3.4300e-003	0.0000	3.4300e-003			0.0000			0.0000
Off-Road	1.1497	12.6777	9.1627	0.0224		0.4920	0.4920		0.4527	0.4527	0.0000	2,165.6125	2,165.6125	0.7004		2,183.1226
Total	1.1497	12.6777	9.1627	0.0224	0.0255	0.4920	0.5175	3.4300e-003	0.4527	0.4561	0.0000	2,165.6125	2,165.6125	0.7004		2,183.1226

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1247	9.2977	2.0952	0.0438	0.5293	0.0626	0.5919	0.1683	0.0599	0.2282		4,811.4885	4,811.4885	0.2680	0.7641	5,045.9004
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	0.0320	0.0223	0.3614	9.9000e-004	0.0340	6.7000e-004	0.0347	0.0106	6.2000e-004	0.0112		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.1567	9.3200	2.4566	0.0448	0.5634	0.0633	0.6267	0.1789	0.0605	0.2394		4,911.4960	4,911.4960	0.2705	0.7665	5,146.6587

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0826	2.8462	1.0770	0.0136	0.4740	0.0144	0.4884	0.1365	0.0138	0.1502		1,459.832 1	1,459.832 1	0.0499	0.2101	1,523.689 6
Worker	1.0435	0.6970	11.7539	0.0337	3.9122	0.0225	3.9347	1.0375	0.0207	1.0583		3,401.055 3	3,401.055 3	0.0799	0.0751	3,425.437 6
Total	1.1261	3.5431	12.8308	0.0472	4.3862	0.0369	4.4231	1.1740	0.0345	1.2085		4,860.887 4	4,860.887 4	0.1297	0.2852	4,949.127 2

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0826	2.8462	1.0770	0.0136	0.2040	0.0144	0.2184	0.0702	0.0138	0.0840		1,459.832 1	1,459.832 1	0.0499	0.2101	1,523.689 6
Worker	1.0435	0.6970	11.7539	0.0337	1.1913	0.0225	1.2138	0.3697	0.0207	0.3904		3,401.055 3	3,401.055 3	0.0799	0.0751	3,425.437 6
Total	1.1261	3.5431	12.8308	0.0472	1.3953	0.0369	1.4322	0.4399	0.0345	0.4744		4,860.887 4	4,860.887 4	0.1297	0.2852	4,949.127 2

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0803	2.8327	1.0572	0.0133	0.4740	0.0144	0.4884	0.1365	0.0138	0.1503		1,433.5494	1,433.5494	0.0502	0.2065	1,496.3321
Worker	0.9755	0.6259	10.9315	0.0325	3.9122	0.0215	3.9336	1.0375	0.0197	1.0573		3,285.1959	3,285.1959	0.0720	0.0702	3,307.9046
Total	1.0557	3.4585	11.9887	0.0458	4.3862	0.0359	4.4221	1.1740	0.0335	1.2076		4,718.7452	4,718.7452	0.1222	0.2766	4,804.2367

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0803	2.8327	1.0572	0.0133	0.2040	0.0144	0.2184	0.0702	0.0138	0.0840		1,433.5494	1,433.5494	0.0502	0.2065	1,496.3321
Worker	0.9755	0.6259	10.9315	0.0325	1.1913	0.0215	1.2127	0.3697	0.0197	0.3894		3,285.1959	3,285.1959	0.0720	0.0702	3,307.9046
Total	1.0557	3.4585	11.9887	0.0458	1.3953	0.0359	1.4311	0.4399	0.0335	0.4734		4,718.7452	4,718.7452	0.1222	0.2766	4,804.2367

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0783	2.8119	1.0421	0.0130	0.4740	0.0144	0.4884	0.1365	0.0138	0.1502		1,406.9430	1,406.9430	0.0505	0.2028	1,468.6252
Worker	0.9172	0.5680	10.2508	0.0315	3.9122	0.0203	3.9325	1.0375	0.0187	1.0562		3,185.1352	3,185.1352	0.0653	0.0661	3,206.4745
Total	0.9954	3.3799	11.2929	0.0446	4.3862	0.0347	4.4209	1.1740	0.0325	1.2065		4,592.0782	4,592.0782	0.1159	0.2689	4,675.0997

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0783	2.8119	1.0421	0.0130	0.2040	0.0144	0.2184	0.0702	0.0138	0.0840		1,406.9430	1,406.9430	0.0505	0.2028	1,468.6252
Worker	0.9172	0.5680	10.2508	0.0315	1.1913	0.0203	1.2116	0.3697	0.0187	0.3884		3,185.1352	3,185.1352	0.0653	0.0661	3,206.4745
Total	0.9954	3.3799	11.2929	0.0446	1.3953	0.0347	1.4300	0.4399	0.0325	0.4723		4,592.0782	4,592.0782	0.1159	0.2689	4,675.0997

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1951	0.1252	2.1863	6.5000e-003	0.7824	4.2900e-003	0.7867	0.2075	3.9500e-003	0.2115		657.0392	657.0392	0.0144	0.0140	661.5809
Total	0.1951	0.1252	2.1863	6.5000e-003	0.7824	4.2900e-003	0.7867	0.2075	3.9500e-003	0.2115		657.0392	657.0392	0.0144	0.0140	661.5809

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.5 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1951	0.1252	2.1863	6.5000e-003	0.2383	4.2900e-003	0.2425	0.0739	3.9500e-003	0.0779		657.0392	657.0392	0.0144	0.0140	661.5809
Total	0.1951	0.1252	2.1863	6.5000e-003	0.2383	4.2900e-003	0.2425	0.0739	3.9500e-003	0.0779		657.0392	657.0392	0.0144	0.0140	661.5809

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.5 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1834	0.1136	2.0502	6.3000e-003	0.7824	4.0700e-003	0.7865	0.2075	3.7400e-003	0.2113		637.0271	637.0271	0.0131	0.0132	641.2949
Total	0.1834	0.1136	2.0502	6.3000e-003	0.7824	4.0700e-003	0.7865	0.2075	3.7400e-003	0.2113		637.0271	637.0271	0.0131	0.0132	641.2949

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

3.5 Architectural Coating - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1834	0.1136	2.0502	6.3000e-003	0.2383	4.0700e-003	0.2423	0.0739	3.7400e-003	0.0777		637.0271	637.0271	0.0131	0.0132	641.2949
Total	0.1834	0.1136	2.0502	6.3000e-003	0.2383	4.0700e-003	0.2423	0.0739	3.7400e-003	0.0777		637.0271	637.0271	0.0131	0.0132	641.2949

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2904	5.2859	54.4237	0.1250	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,752.75 69	12,752.75 69	0.8168	0.5007	12,922.38 10
Unmitigated	5.2904	5.2859	54.4237	0.1250	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,752.75 69	12,752.75 69	0.8168	0.5007	12,922.38 10

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,505.92	1,505.92	1505.92	5,796,409	5,796,409
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	253.82	253.82	253.82	814,145	814,145
Total	1,759.74	1,759.74	1,759.74	6,610,554	6,610,554

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	100	0	0

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
Enclosed Parking with Elevator	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
High Turnover (Sit Down Restaurant)	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
NaturalGas Unmitigated	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

Sepulveda Centinela - Future - Los Angeles-South Coast 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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11058	0.1193	1.0191	0.4337	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.9387	1,300.9387	0.0249	0.0239	1,308.6696
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2620.72	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Total		0.1475	1.2760	0.6495	8.0400e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

Sepulveda Centinela - Future - Los Angeles-South Coast 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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.058	0.1193	1.0191	0.4337	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.9387	1,300.9387	0.0249	0.0239	1,308.6696
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.62072	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Total		0.1475	1.2760	0.6495	8.0400e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

6.0 Area Detail

6.1 Mitigation Measures Area

Sepulveda Centinela - Future - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Unmitigated	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8979	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656		53.8228	53.8228	0.0516		55.1132
Total	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

Sepulveda Centinela - Future - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8979	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656		53.8228	53.8228	0.0516		55.1132
Total	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Future - Los Angeles-South Coast 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
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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

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

**Sepulveda Centinela - Future
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High Turnover (Sit Down Restaurant)	3.70	1000sqft	0.00	3,700.00	0
Enclosed Parking with Elevator	210.21	1000sqft	0.00	210,205.00	0
Apartments Mid Rise	362.00	Dwelling Unit	2.04	387,156.00	1035

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Applicant info. Analysis does not include sewer relocation.

Land Use - Existing restaurant to remain excluded from lot acreage and square footage calculations.

Construction Phase - Construction schedule does not include sewer relocation.

Off-road Equipment - Consultant assumptions

Off-road Equipment - Consultant assumptions

Off-road Equipment -

Off-road Equipment -

Grading - Applicant info

Demolition - Assumes 1647 CY asphalt @ 773lb per CY. Assumes 11372 CY C&D debris @ 484lb per CY.

Trips and VMT - Consultant assumptions.

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

Vehicle Trips - Per Project's LADOT MOU. Linscott, Law & Greenspan, Engineers. June 2021.

Woodstoves - No hearths.

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403 control efficiency for trackout PM reduction.

Landscape Equipment -

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	80
tblConstructionPhase	NumDays	10.00	195.00
tblConstructionPhase	NumDays	220.00	630.00
tblConstructionPhase	NumDays	20.00	77.00
tblConstructionPhase	NumDays	6.00	98.00
tblConstructionPhase	PhaseEndDate	5/9/2024	2/27/2026
tblConstructionPhase	PhaseEndDate	4/11/2024	5/29/2026
tblConstructionPhase	PhaseEndDate	5/26/2023	8/15/2023
tblConstructionPhase	PhaseEndDate	6/8/2023	12/29/2023
tblConstructionPhase	PhaseStartDate	4/26/2024	6/1/2025
tblConstructionPhase	PhaseStartDate	6/9/2023	1/1/2024
tblConstructionPhase	PhaseStartDate	6/1/2023	8/16/2023
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	307.70	0.00
tblFireplaces	NumberNoFireplace	36.20	0.00
tblFireplaces	NumberWood	18.10	0.00
tblGrading	AcresOfGrading	98.00	2.04
tblGrading	MaterialExported	0.00	30,000.00
tblLandUse	LandUseSquareFeet	362,000.00	387,156.00
tblLandUse	LotAcreage	0.08	0.00

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

tblLandUse	LotAcreage	4.83	0.00
tblLandUse	LotAcreage	9.53	2.04
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Crawler Tractors
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblTripsAndVMT	HaulingTripLength	20.00	40.00
tblVehicleTrips	DV_TP	11.00	0.00
tblVehicleTrips	DV_TP	20.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	43.00	0.00
tblVehicleTrips	PR_TP	86.00	100.00
tblVehicleTrips	PR_TP	37.00	100.00
tblVehicleTrips	ST_TR	4.91	4.16
tblVehicleTrips	ST_TR	122.40	68.60
tblVehicleTrips	SU_TR	4.09	4.16
tblVehicleTrips	SU_TR	142.64	68.60
tblVehicleTrips	WD_TR	5.44	4.16
tblVehicleTrips	WD_TR	112.18	68.60
tblWoodstoves	NumberCatalytic	18.10	0.00
tblWoodstoves	NumberNoncatalytic	18.10	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00

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

tblWoodstoves	WoodstoveWoodMass	999.60	0.00
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2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2023	1.3034	22.3882	11.6071	0.0671	1.5073	0.5554	2.0626	0.4043	0.5132	0.9175	0.0000	7,074.426 2	7,074.426 2	0.9707	0.7670	7,327.269 5
2024	2.8016	16.5730	26.0246	0.0705	4.3862	0.5750	4.9612	1.1740	0.5498	1.7238	0.0000	6,974.063 7	6,974.063 7	0.5571	0.2909	7,074.670 7
2025	15.9027	16.9640	28.9847	0.0783	5.1686	0.5617	5.7303	1.3815	0.5389	1.9204	0.0000	7,742.622 2	7,742.622 2	0.5731	0.2969	7,845.420 4
2026	15.8290	16.8657	28.2236	0.0769	5.1686	0.5603	5.7290	1.3815	0.5376	1.9191	0.0000	7,602.573 1	7,602.573 1	0.5654	0.2880	7,702.518 7
Maximum	15.9027	22.3882	28.9847	0.0783	5.1686	0.5750	5.7303	1.3815	0.5498	1.9204	0.0000	7,742.622 2	7,742.622 2	0.9707	0.7670	7,845.420 4

Sepulveda Centinela - Future - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Energy	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
Mobile	5.2042	5.7027	53.2635	0.1198	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,218.9806	12,218.9806	0.8368	0.5218	12,395.3964
Total	14.7521	7.3226	83.7719	0.1294	13.9196	0.3545	14.2742	3.7081	0.3484	4.0564	0.0000	13,882.0615	13,882.0615	0.9193	0.5513	14,069.3308

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Energy	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
Mobile	5.2042	5.7027	53.2635	0.1198	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,218.9806	12,218.9806	0.8368	0.5218	12,395.3964
Total	14.7521	7.3226	83.7719	0.1294	13.9196	0.3545	14.2742	3.7081	0.3484	4.0564	0.0000	13,882.0615	13,882.0615	0.9193	0.5513	14,069.3308

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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
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	5/1/2023	8/15/2023	5	77	
2	Grading	Grading	8/16/2023	12/29/2023	5	98	
3	Building Construction	Building Construction	1/1/2024	5/29/2026	5	630	
4	Architectural Coating	Architectural Coating	6/1/2025	2/27/2026	5	195	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.04

Acres of Paving: 0

Residential Indoor: 783,991; Residential Outdoor: 261,330; Non-Residential Indoor: 5,550; Non-Residential Outdoor: 1,850; Striped Parking Area: 12,612 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41

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

Grading	Crawler Tractors	1	8.00	212	0.43
Demolition	Excavators	1	8.00	158	0.38
Demolition	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45

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	3	8.00	0.00	335.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	3,750.00	14.70	6.90	40.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	350.00	74.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	70.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9418	0.0000	0.9418	0.1426	0.0000	0.1426			0.0000			0.0000
Off-Road	0.4923	4.6277	7.7367	0.0114		0.2278	0.2278		0.2096	0.2096		1,105.759 2	1,105.759 2	0.3576		1,114.699 8
Total	0.4923	4.6277	7.7367	0.0114	0.9418	0.2278	1.1696	0.1426	0.2096	0.3522		1,105.759 2	1,105.759 2	0.3576		1,114.699 8

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0136	1.1013	0.2402	4.9800e-003	0.1522	7.1300e-003	0.1593	0.0417	6.8200e-003	0.0485		547.3461	547.3461	0.0304	0.0869	574.0120
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	0.0275	0.0197	0.2658	7.5000e-004	0.0894	5.4000e-004	0.0900	0.0237	5.0000e-004	0.0242		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	0.0411	1.1210	0.5059	5.7300e-003	0.2416	7.6700e-003	0.2493	0.0654	7.3200e-003	0.0728		623.1344	623.1344	0.0325	0.0889	650.4391

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.2 Demolition - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4238	0.0000	0.4238	0.0642	0.0000	0.0642			0.0000			0.0000
Off-Road	0.4923	4.6277	7.7367	0.0114		0.2278	0.2278		0.2096	0.2096	0.0000	1,105.759 2	1,105.759 2	0.3576		1,114.699 8
Total	0.4923	4.6277	7.7367	0.0114	0.4238	0.2278	0.6516	0.0642	0.2096	0.2738	0.0000	1,105.759 2	1,105.759 2	0.3576		1,114.699 8

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0136	1.1013	0.2402	4.9800e-003	0.0602	7.1300e-003	0.0673	0.0191	6.8200e-003	0.0260		547.3461	547.3461	0.0304	0.0869	574.0120
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	0.0275	0.0197	0.2658	7.5000e-004	0.0272	5.4000e-004	0.0278	8.4500e-003	5.0000e-004	8.9400e-003		75.7883	75.7883	2.0500e-003	1.9700e-003	76.4271
Total	0.0411	1.1210	0.5059	5.7300e-003	0.0874	7.6700e-003	0.0951	0.0276	7.3200e-003	0.0349		623.1344	623.1344	0.0325	0.0889	650.4391

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.3 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0567	0.0000	0.0567	7.6300e-003	0.0000	7.6300e-003			0.0000			0.0000
Off-Road	1.1497	12.6777	9.1627	0.0224		0.4920	0.4920		0.4527	0.4527		2,165.6125	2,165.6125	0.7004		2,183.1226
Total	1.1497	12.6777	9.1627	0.0224	0.0567	0.4920	0.5487	7.6300e-003	0.4527	0.4603		2,165.6125	2,165.6125	0.7004		2,183.1226

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1194	9.6859	2.1122	0.0438	1.3388	0.0627	1.4015	0.3670	0.0600	0.4270		4,814.0784	4,814.0784	0.2677	0.7646	5,048.6131
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	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.1537	9.7105	2.4444	0.0447	1.4506	0.0634	1.5139	0.3966	0.0606	0.4572		4,908.8137	4,908.8137	0.2703	0.7670	5,144.1470

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.3 Grading - 2023

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0255	0.0000	0.0255	3.4300e-003	0.0000	3.4300e-003			0.0000			0.0000
Off-Road	1.1497	12.6777	9.1627	0.0224		0.4920	0.4920		0.4527	0.4527	0.0000	2,165.6125	2,165.6125	0.7004		2,183.1226
Total	1.1497	12.6777	9.1627	0.0224	0.0255	0.4920	0.5175	3.4300e-003	0.4527	0.4561	0.0000	2,165.6125	2,165.6125	0.7004		2,183.1226

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1194	9.6859	2.1122	0.0438	0.5293	0.0627	0.5920	0.1683	0.0600	0.2283		4,814.0784	4,814.0784	0.2677	0.7646	5,048.6131
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	0.0344	0.0246	0.3322	9.4000e-004	0.0340	6.7000e-004	0.0347	0.0106	6.2000e-004	0.0112		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.1537	9.7105	2.4444	0.0447	0.5634	0.0634	0.6267	0.1789	0.0606	0.2395		4,908.8137	4,908.8137	0.2703	0.7670	5,144.1470

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153		2,289.654 1	2,289.654 1	0.4265		2,300.315 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0795	2.9799	1.1111	0.0136	0.4740	0.0145	0.4885	0.1365	0.0138	0.1503		1,462.346 1	1,462.346 1	0.0496	0.2107	1,526.362 7
Worker	1.1249	0.7697	10.8133	0.0319	3.9122	0.0225	3.9347	1.0375	0.0207	1.0583		3,222.063 6	3,222.063 6	0.0810	0.0802	3,247.992 6
Total	1.2045	3.7496	11.9244	0.0455	4.3862	0.0370	4.4232	1.1740	0.0346	1.2086		4,684.409 6	4,684.409 6	0.1307	0.2909	4,774.355 3

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2024

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4
Total	1.5971	12.8235	14.1002	0.0250		0.5381	0.5381		0.5153	0.5153	0.0000	2,289.654 1	2,289.654 1	0.4265		2,300.315 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0795	2.9799	1.1111	0.0136	0.2040	0.0145	0.2184	0.0702	0.0138	0.0840		1,462.346 1	1,462.346 1	0.0496	0.2107	1,526.362 7
Worker	1.1249	0.7697	10.8133	0.0319	1.1913	0.0225	1.2138	0.3697	0.0207	0.3904		3,222.063 6	3,222.063 6	0.0810	0.0802	3,247.992 6
Total	1.2045	3.7496	11.9244	0.0455	1.3953	0.0370	1.4322	0.4399	0.0346	0.4744		4,684.409 6	4,684.409 6	0.1307	0.2909	4,774.355 3

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0771	2.9660	1.0910	0.0133	0.4740	0.0145	0.4885	0.1365	0.0139	0.1504		1,436.0624	1,436.0624	0.0500	0.2070	1,498.9998
Worker	1.0551	0.6910	10.0645	0.0308	3.9122	0.0215	3.9336	1.0375	0.0197	1.0573		3,112.6849	3,112.6849	0.0732	0.0749	3,136.8334
Total	1.1322	3.6570	11.1554	0.0441	4.3862	0.0360	4.4221	1.1740	0.0336	1.2076		4,548.7473	4,548.7473	0.1231	0.2819	4,635.8332

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0771	2.9660	1.0910	0.0133	0.2040	0.0145	0.2185	0.0702	0.0139	0.0841		1,436.0624	1,436.0624	0.0500	0.2070	1,498.9998
Worker	1.0551	0.6910	10.0645	0.0308	1.1913	0.0215	1.2127	0.3697	0.0197	0.3894		3,112.6849	3,112.6849	0.0732	0.0749	3,136.8334
Total	1.1322	3.6570	11.1554	0.0441	1.3953	0.0360	1.4312	0.4399	0.0336	0.4735		4,548.7473	4,548.7473	0.1231	0.2819	4,635.8332

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498		2,289.8898	2,289.8898	0.4200		2,300.3887

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0750	2.9446	1.0756	0.0131	0.4740	0.0145	0.4885	0.1365	0.0138	0.1503		1,409.4487	1,409.4487	0.0503	0.2033	1,471.2819
Worker	0.9955	0.6269	9.4431	0.0299	3.9122	0.0203	3.9325	1.0375	0.0187	1.0562		3,018.1554	3,018.1554	0.0665	0.0706	3,040.8469
Total	1.0705	3.5715	10.5187	0.0429	4.3862	0.0348	4.4210	1.1740	0.0325	1.2066		4,427.6042	4,427.6042	0.1168	0.2738	4,512.1287

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.4 Building Construction - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887
Total	1.4897	12.0233	14.0072	0.0250		0.4700	0.4700		0.4498	0.4498	0.0000	2,289.8898	2,289.8898	0.4200		2,300.3887

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0750	2.9446	1.0756	0.0131	0.2040	0.0145	0.2184	0.0702	0.0138	0.0840		1,409.4487	1,409.4487	0.0503	0.2033	1,471.2819
Worker	0.9955	0.6269	9.4431	0.0299	1.1913	0.0203	1.2116	0.3697	0.0187	0.3884		3,018.1554	3,018.1554	0.0665	0.0706	3,040.8469
Total	1.0705	3.5715	10.5187	0.0429	1.3953	0.0348	1.4300	0.4399	0.0325	0.4724		4,427.6042	4,427.6042	0.1168	0.2738	4,512.1287

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.5 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.2110	0.1382	2.0129	6.1600e-003	0.7824	4.2900e-003	0.7867	0.2075	3.9500e-003	0.2115		622.5370	622.5370	0.0146	0.0150	627.3667
Total	0.2110	0.1382	2.0129	6.1600e-003	0.7824	4.2900e-003	0.7867	0.2075	3.9500e-003	0.2115		622.5370	622.5370	0.0146	0.0150	627.3667

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.5 Architectural Coating - 2025

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.2110	0.1382	2.0129	6.1600e-003	0.2383	4.2900e-003	0.2425	0.0739	3.9500e-003	0.0779		622.5370	622.5370	0.0146	0.0150	627.3667
Total	0.2110	0.1382	2.0129	6.1600e-003	0.2383	4.2900e-003	0.2425	0.0739	3.9500e-003	0.0779		622.5370	622.5370	0.0146	0.0150	627.3667

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.5 Architectural Coating - 2026

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1991	0.1254	1.8886	5.9700e-003	0.7824	4.0700e-003	0.7865	0.2075	3.7400e-003	0.2113		603.6311	603.6311	0.0133	0.0141	608.1694
Total	0.1991	0.1254	1.8886	5.9700e-003	0.7824	4.0700e-003	0.7865	0.2075	3.7400e-003	0.2113		603.6311	603.6311	0.0133	0.0141	608.1694

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

3.5 Architectural Coating - 2026

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.8989					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319
Total	13.0698	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515	0.0000	281.4481	281.4481	0.0154		281.8319

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.1991	0.1254	1.8886	5.9700e-003	0.2383	4.0700e-003	0.2423	0.0739	3.7400e-003	0.0777		603.6311	603.6311	0.0133	0.0141	608.1694
Total	0.1991	0.1254	1.8886	5.9700e-003	0.2383	4.0700e-003	0.2423	0.0739	3.7400e-003	0.0777		603.6311	603.6311	0.0133	0.0141	608.1694

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.2042	5.7027	53.2635	0.1198	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,218.9806	12,218.9806	0.8368	0.5218	12,395.3964
Unmitigated	5.2042	5.7027	53.2635	0.1198	13.9196	0.0870	14.0066	3.7081	0.0808	3.7889		12,218.9806	12,218.9806	0.8368	0.5218	12,395.3964

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Mid Rise	1,505.92	1,505.92	1505.92	5,796,409	5,796,409
Enclosed Parking with Elevator	0.00	0.00	0.00		
High Turnover (Sit Down Restaurant)	253.82	253.82	253.82	814,145	814,145
Total	1,759.74	1,759.74	1,759.74	6,610,554	6,610,554

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
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	100	0	0
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
High Turnover (Sit Down)	16.60	8.40	6.90	8.50	72.50	19.00	100	0	0

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Mid Rise	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
Enclosed Parking with Elevator	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318
High Turnover (Sit Down Restaurant)	0.537891	0.065289	0.189998	0.126515	0.023567	0.006518	0.011114	0.008084	0.000933	0.000591	0.025474	0.000708	0.003318

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212
NaturalGas Unmitigated	0.1475	1.2760	0.6495	8.0500e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11058	0.1193	1.0191	0.4337	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.9387	1,300.9387	0.0249	0.0239	1,308.6696
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2620.72	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Total		0.1475	1.2760	0.6495	8.0400e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Mid Rise	11.058	0.1193	1.0191	0.4337	6.5000e-003		0.0824	0.0824		0.0824	0.0824		1,300.9387	1,300.9387	0.0249	0.0239	1,308.6696
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
High Turnover (Sit Down Restaurant)	2.62072	0.0283	0.2569	0.2158	1.5400e-003		0.0195	0.0195		0.0195	0.0195		308.3194	308.3194	5.9100e-003	5.6500e-003	310.1516
Total		0.1475	1.2760	0.6495	8.0400e-003		0.1019	0.1019		0.1019	0.1019		1,609.2582	1,609.2582	0.0308	0.0295	1,618.8212

6.0 Area Detail

6.1 Mitigation Measures Area

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132
Unmitigated	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8979	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656		53.8228	53.8228	0.0516		55.1132
Total	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.6891					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	7.8134					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.8979	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656		53.8228	53.8228	0.0516		55.1132
Total	9.4004	0.3439	29.8589	1.5800e-003		0.1656	0.1656		0.1656	0.1656	0.0000	53.8228	53.8228	0.0516	0.0000	55.1132

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Future - Los Angeles-South Coast County, Winter

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
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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

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Annual

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

Sepulveda Centinela - Sewer Relocation

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.50	1000sqft	0.10	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Assumes 450'x10' total re-paved area after new sewer infrastructure installation.
- Construction Phase - Applicant info.
- Off-road Equipment - Consultant assumptions
- Off-road Equipment - Consultant assumptions.
- Off-road Equipment - Consultant assumptions.
- Grading - Applicant info.
- Trips and VMT - Consultant assumptions
- Landscape Equipment - No landscaping.
- Water And Wastewater -
- Construction Off-road Equipment Mitigation -

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Annual

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	63.00
tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	PhaseEndDate	6/7/2023	4/28/2023
tblConstructionPhase	PhaseEndDate	1/18/2023	3/31/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/31/2023
tblConstructionPhase	PhaseStartDate	1/19/2023	2/1/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	5/1/2023
tblLandscapeEquipment	NumberSummerDays	250	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	2.00	10.00

2.0 Emissions Summary

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Annual

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	3.5000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2023	3/31/2023	5	65	
2	Building Construction	Building Construction	2/1/2023	4/28/2023	5	63	
3	Paving	Paving	5/1/2023	5/31/2023	5	23	

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

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.1

Residential Indoor: 0; Residential Outdoor: 0; 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
Grading	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	0	6.00	187	0.41
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Grading	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Annual

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

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1600e-003	0.0506	0.1064	1.7000e-004		2.4800e-003	2.4800e-003		2.2800e-003	2.2800e-003	0.0000	14.8186	14.8186	4.7900e-003	0.0000	14.9384
Total	6.1600e-003	0.0506	0.1064	1.7000e-004	0.0000	2.4800e-003	2.4800e-003	0.0000	2.2800e-003	2.2800e-003	0.0000	14.8186	14.8186	4.7900e-003	0.0000	14.9384

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

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	8.2000e-004	0.0111	3.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8348	2.8348	8.0000e-005	7.0000e-005	2.8587
Total	1.0300e-003	8.2000e-004	0.0111	3.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8348	2.8348	8.0000e-005	7.0000e-005	2.8587

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1600e-003	0.0506	0.1064	1.7000e-004		2.4800e-003	2.4800e-003		2.2800e-003	2.2800e-003	0.0000	14.8186	14.8186	4.7900e-003	0.0000	14.9384
Total	6.1600e-003	0.0506	0.1064	1.7000e-004	0.0000	2.4800e-003	2.4800e-003	0.0000	2.2800e-003	2.2800e-003	0.0000	14.8186	14.8186	4.7900e-003	0.0000	14.9384

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

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0300e-003	8.2000e-004	0.0111	3.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8348	2.8348	8.0000e-005	7.0000e-005	2.8587
Total	1.0300e-003	8.2000e-004	0.0111	3.0000e-005	3.5600e-003	2.0000e-005	3.5800e-003	9.5000e-004	2.0000e-005	9.7000e-004	0.0000	2.8348	2.8348	8.0000e-005	7.0000e-005	2.8587

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2013	0.2658	4.2000e-004		9.5700e-003	9.5700e-003		9.2600e-003	9.2600e-003	0.0000	35.5236	35.5236	5.2400e-003	0.0000	35.6547
Total	0.0248	0.2013	0.2658	4.2000e-004		9.5700e-003	9.5700e-003		9.2600e-003	9.2600e-003	0.0000	35.5236	35.5236	5.2400e-003	0.0000	35.6547

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

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2700e-003	4.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5727	0.5727	2.0000e-005	8.0000e-005	0.5978
Worker	1.0000e-003	7.9000e-004	0.0107	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7476	2.7476	7.0000e-005	7.0000e-005	2.7707
Total	1.0400e-003	2.0600e-003	0.0112	4.0000e-005	3.6500e-003	3.0000e-005	3.6700e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.3203	3.3203	9.0000e-005	1.5000e-004	3.3685

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0248	0.2013	0.2658	4.2000e-004		9.5700e-003	9.5700e-003		9.2600e-003	9.2600e-003	0.0000	35.5235	35.5235	5.2400e-003	0.0000	35.6546
Total	0.0248	0.2013	0.2658	4.2000e-004		9.5700e-003	9.5700e-003		9.2600e-003	9.2600e-003	0.0000	35.5235	35.5235	5.2400e-003	0.0000	35.6546

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.0000e-005	1.2700e-003	4.8000e-004	1.0000e-005	2.0000e-004	1.0000e-005	2.0000e-004	6.0000e-005	1.0000e-005	6.0000e-005	0.0000	0.5727	0.5727	2.0000e-005	8.0000e-005	0.5978
Worker	1.0000e-003	7.9000e-004	0.0107	3.0000e-005	3.4500e-003	2.0000e-005	3.4700e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.7476	2.7476	7.0000e-005	7.0000e-005	2.7707
Total	1.0400e-003	2.0600e-003	0.0112	4.0000e-005	3.6500e-003	3.0000e-005	3.6700e-003	9.8000e-004	3.0000e-005	1.0000e-003	0.0000	3.3203	3.3203	9.0000e-005	1.5000e-004	3.3685

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0538	0.0728	1.1000e-004		2.6700e-003	2.6700e-003		2.4700e-003	2.4700e-003	0.0000	9.6233	9.6233	3.0300e-003	0.0000	9.6990
Paving	1.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6400e-003	0.0538	0.0728	1.1000e-004		2.6700e-003	2.6700e-003		2.4700e-003	2.4700e-003	0.0000	9.6233	9.6233	3.0300e-003	0.0000	9.6990

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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 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.6000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2091	0.2091	1.0000e-005	3.0000e-005	0.2182
Worker	3.6000e-004	2.9000e-004	3.9200e-003	1.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0031	1.0031	3.0000e-005	3.0000e-005	1.0115
Total	3.7000e-004	7.5000e-004	4.0900e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2122	1.2122	4.0000e-005	6.0000e-005	1.2298

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.5100e-003	0.0538	0.0728	1.1000e-004		2.6700e-003	2.6700e-003		2.4700e-003	2.4700e-003	0.0000	9.6233	9.6233	3.0300e-003	0.0000	9.6990
Paving	1.3000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	5.6400e-003	0.0538	0.0728	1.1000e-004		2.6700e-003	2.6700e-003		2.4700e-003	2.4700e-003	0.0000	9.6233	9.6233	3.0300e-003	0.0000	9.6990

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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 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-005	4.6000e-004	1.7000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.2091	0.2091	1.0000e-005	3.0000e-005	0.2182
Worker	3.6000e-004	2.9000e-004	3.9200e-003	1.0000e-005	1.2600e-003	1.0000e-005	1.2700e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0031	1.0031	3.0000e-005	3.0000e-005	1.0115
Total	3.7000e-004	7.5000e-004	4.0900e-003	1.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2122	1.2122	4.0000e-005	6.0000e-005	1.2298

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

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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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	6.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.9000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.5000e-004	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

7.0 Water Detail

7.1 Mitigation Measures Water

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

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

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

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

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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

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Annual

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
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User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

Sepulveda Centinela - Sewer Relocation

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.50	1000sqft	0.10	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	691.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Assumes 450'x10' total re-paved area after new sewer infrastructure installation.
- Construction Phase - Applicant info.
- Off-road Equipment - Consultant assumptions
- Off-road Equipment - Consultant assumptions.
- Off-road Equipment - Consultant assumptions.
- Grading - Applicant info.
- Trips and VMT - Consultant assumptions
- Landscape Equipment - No landscaping.
- Water And Wastewater -
- Construction Off-road Equipment Mitigation -

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	63.00
tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	PhaseEndDate	6/7/2023	4/28/2023
tblConstructionPhase	PhaseEndDate	1/18/2023	3/31/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/31/2023
tblConstructionPhase	PhaseStartDate	1/19/2023	2/1/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	5/1/2023
tblLandscapeEquipment	NumberSummerDays	250	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	2.00	10.00

2.0 Emissions Summary

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000	0.0000	1.0500e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000	0.0000	1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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
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	Grading	Grading	1/1/2023	3/31/2023	5	65	
2	Building Construction	Building Construction	2/1/2023	4/28/2023	5	63	
3	Paving	Paving	5/1/2023	5/31/2023	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.1

Residential Indoor: 0; Residential Outdoor: 0; 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
Grading	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	0	6.00	187	0.41
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	7.00	130	0.42

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

Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Grading	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1896	1.5564	3.2741	5.1900e-003		0.0762	0.0762		0.0701	0.0701		502.6062	502.6062	0.1626		506.6700
Total	0.1896	1.5564	3.2741	5.1900e-003	0.0000	0.0762	0.0762	0.0000	0.0701	0.0701		502.6062	502.6062	0.1626		506.6700

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

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1896	1.5564	3.2741	5.1900e-003		0.0762	0.0762		0.0701	0.0701	0.0000	502.6062	502.6062	0.1626		506.6700
Total	0.1896	1.5564	3.2741	5.1900e-003	0.0000	0.0762	0.0762	0.0000	0.0701	0.0701	0.0000	502.6062	502.6062	0.1626		506.6700

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

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941		1,243.1119	1,243.1119	0.1835		1,247.6991
Total	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941		1,243.1119	1,243.1119	0.1835		1,247.6991

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1500e-003	0.0384	0.0149	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.8000e-004	2.0300e-003		20.0283	20.0283	6.7000e-004	2.8800e-003	20.9031
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0332	0.0607	0.3763	1.1800e-003	0.1182	8.6000e-004	0.1191	0.0315	8.0000e-004	0.0323		120.0358	120.0358	3.1900e-003	5.1900e-003	121.6615

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941	0.0000	1,243.1119	1,243.1119	0.1835		1,247.6991
Total	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941	0.0000	1,243.1119	1,243.1119	0.1835		1,247.6991

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1500e-003	0.0384	0.0149	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.8000e-004	2.0300e-003		20.0283	20.0283	6.7000e-004	2.8800e-003	20.9031
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0332	0.0607	0.3763	1.1800e-003	0.1182	8.6000e-004	0.1191	0.0315	8.0000e-004	0.0323		120.0358	120.0358	3.1900e-003	5.1900e-003	121.6615

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4790	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144		922.4261	922.4261	0.2900		929.6763
Paving	0.0114					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4903	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144		922.4261	922.4261	0.2900		929.6763

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1500e-003	0.0384	0.0149	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.8000e-004	2.0300e-003		20.0283	20.0283	6.7000e-004	2.8800e-003	20.9031
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0332	0.0607	0.3763	1.1800e-003	0.1182	8.6000e-004	0.1191	0.0315	8.0000e-004	0.0323		120.0358	120.0358	3.1900e-003	5.1900e-003	121.6615

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4790	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144	0.0000	922.4261	922.4261	0.2900		929.6763
Paving	0.0114					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4903	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144	0.0000	922.4261	922.4261	0.2900		929.6763

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1500e-003	0.0384	0.0149	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.8000e-004	2.0300e-003		20.0283	20.0283	6.7000e-004	2.8800e-003	20.9031
Worker	0.0320	0.0223	0.3614	9.9000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		100.0075	100.0075	2.5200e-003	2.3100e-003	100.7583
Total	0.0332	0.0607	0.3763	1.1800e-003	0.1182	8.6000e-004	0.1191	0.0315	8.0000e-004	0.0323		120.0358	120.0358	3.1900e-003	5.1900e-003	121.6615

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Summer

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast 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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Unmitigated	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast 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

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	1.9700e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	1.9700e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast 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
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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

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

**Sepulveda Centinela - Sewer Relocation
Los Angeles-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	4.50	1000sqft	0.10	4,500.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2023
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	691.98	CH4 Intensity (lb/MW hr)	0.033	N2O Intensity (lb/MW hr)	0.004

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Assumes 450'x10' total re-paved area after new sewer infrastructure installation.
- Construction Phase - Applicant info.
- Off-road Equipment - Consultant assumptions
- Off-road Equipment - Consultant assumptions.
- Off-road Equipment - Consultant assumptions.
- Grading - Applicant info.
- Trips and VMT - Consultant assumptions
- Landscape Equipment - No landscaping.
- Water And Wastewater -
- Construction Off-road Equipment Mitigation -

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	63.00
tblConstructionPhase	NumDays	2.00	65.00
tblConstructionPhase	NumDays	5.00	23.00
tblConstructionPhase	PhaseEndDate	6/7/2023	4/28/2023
tblConstructionPhase	PhaseEndDate	1/18/2023	3/31/2023
tblConstructionPhase	PhaseEndDate	6/14/2023	5/31/2023
tblConstructionPhase	PhaseStartDate	1/19/2023	2/1/2023
tblConstructionPhase	PhaseStartDate	1/17/2023	1/1/2023
tblConstructionPhase	PhaseStartDate	6/8/2023	5/1/2023
tblLandscapeEquipment	NumberSummerDays	250	0
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Welders
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblTripsAndVMT	VendorTripNumber	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	2.00	10.00

2.0 Emissions Summary

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast 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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000	0.0000	1.0500e-003

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9800e-003	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000	0.0000	1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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
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	Grading	Grading	1/1/2023	3/31/2023	5	65	
2	Building Construction	Building Construction	2/1/2023	4/28/2023	5	63	
3	Paving	Paving	5/1/2023	5/31/2023	5	23	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.1

Residential Indoor: 0; Residential Outdoor: 0; 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
Grading	Excavators	1	8.00	158	0.38
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	0	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Grading	Graders	0	6.00	187	0.41
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	7.00	130	0.42

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

Paving	Rollers	1	7.00	80	0.38
Grading	Rubber Tired Dozers	0	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37

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
Grading	1	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	1.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Grading - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1896	1.5564	3.2741	5.1900e-003		0.0762	0.0762		0.0701	0.0701		502.6062	502.6062	0.1626		506.6700
Total	0.1896	1.5564	3.2741	5.1900e-003	0.0000	0.0762	0.0762	0.0000	0.0701	0.0701		502.6062	502.6062	0.1626		506.6700

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.2 Grading - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.1896	1.5564	3.2741	5.1900e-003		0.0762	0.0762		0.0701	0.0701	0.0000	502.6062	502.6062	0.1626		506.6700
Total	0.1896	1.5564	3.2741	5.1900e-003	0.0000	0.0762	0.0762	0.0000	0.0701	0.0701	0.0000	502.6062	502.6062	0.1626		506.6700

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.2 Grading - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339

3.3 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941		1,243.1119	1,243.1119	0.1835		1,247.6991
Total	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941		1,243.1119	1,243.1119	0.1835		1,247.6991

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.3 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1100e-003	0.0402	0.0153	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		20.0620	20.0620	6.7000e-004	2.8900e-003	20.9391
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0355	0.0648	0.3475	1.1300e-003	0.1182	8.6000e-004	0.1191	0.0315	8.1000e-004	0.0323		114.7974	114.7974	3.2300e-003	5.3600e-003	116.4730

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941	0.0000	1,243.1119	1,243.1119	0.1835		1,247.6991
Total	0.7886	6.3916	8.4372	0.0134		0.3037	0.3037		0.2941	0.2941	0.0000	1,243.1119	1,243.1119	0.1835		1,247.6991

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.3 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1100e-003	0.0402	0.0153	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		20.0620	20.0620	6.7000e-004	2.8900e-003	20.9391
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0355	0.0648	0.3475	1.1300e-003	0.1182	8.6000e-004	0.1191	0.0315	8.1000e-004	0.0323		114.7974	114.7974	3.2300e-003	5.3600e-003	116.4730

3.4 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4790	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144		922.4261	922.4261	0.2900		929.6763
Paving	0.0114					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4903	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144		922.4261	922.4261	0.2900		929.6763

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.4 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1100e-003	0.0402	0.0153	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		20.0620	20.0620	6.7000e-004	2.8900e-003	20.9391
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0355	0.0648	0.3475	1.1300e-003	0.1182	8.6000e-004	0.1191	0.0315	8.1000e-004	0.0323		114.7974	114.7974	3.2300e-003	5.3600e-003	116.4730

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4790	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144	0.0000	922.4261	922.4261	0.2900		929.6763
Paving	0.0114					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4903	4.6762	6.3271	9.6700e-003		0.2321	0.2321		0.2144	0.2144	0.0000	922.4261	922.4261	0.2900		929.6763

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

3.4 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										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	1.1100e-003	0.0402	0.0153	1.9000e-004	6.4100e-003	1.9000e-004	6.6000e-003	1.8400e-003	1.9000e-004	2.0300e-003		20.0620	20.0620	6.7000e-004	2.8900e-003	20.9391
Worker	0.0344	0.0246	0.3322	9.4000e-004	0.1118	6.7000e-004	0.1125	0.0296	6.2000e-004	0.0303		94.7354	94.7354	2.5600e-003	2.4700e-003	95.5339
Total	0.0355	0.0648	0.3475	1.1300e-003	0.1182	8.6000e-004	0.1191	0.0315	8.1000e-004	0.0323		114.7974	114.7974	3.2300e-003	5.3600e-003	116.4730

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

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
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.544785	0.062844	0.187478	0.127235	0.023089	0.006083	0.010475	0.008012	0.000925	0.000611	0.024394	0.000698	0.003374

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
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

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Unmitigated	1.9800e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	1.9700e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	3.4000e-004					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.5900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0000e-005	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003
Total	1.9700e-003	0.0000	4.6000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		9.8000e-004	9.8000e-004	0.0000		1.0500e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Sepulveda Centinela - Sewer Relocation - Los Angeles-South Coast County, Winter

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
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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
