

Fire Station No. 9 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fire Station No. 9

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	12.78	1000sqft	0.29	12,780.00	0
Parking Lot	22.00	Space	0.11	8,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The proposed project would construct a 12,780 sf two-story fire station.

Construction Phase - Assuming that construction will begin in Winter 2022 and occur for approximately 16 months.

Trips and VMT - Worker trips are based on construction trip generation prepared by LSA and defaults for architectural coating.

Demolition - The project would demolish the existing 5,000 sf office building.

Grading - Based on the preliminary grading plans, approximately 45 cubic yards of fill material would be required to be imported to the project site.

Vehicle Trips - The proposed project is intended to meet the City's need to replace the original Fire Station No. 9; therefore, this analysis assumes that no new vehicle or fire engine trips would occur.

Construction Off-road Equipment Mitigation - Assuming use of Tier 2 construction equipment and compliance with SCAQMD Rule 403: Fugitive Dust measures.

Area Mitigation - Assuming use of low VOC paint consistent with SCAQMD Rule 1113

Energy Mitigation - The project would be designed to achieve Leadership in Energy and Environmental Design (LEED) Gold certification and would include solar panels on the roof, low LED lighting, and energy-efficient appliances.

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Water Mitigation - The proposed project would include low-flow plumbing features and low-flow irrigation systems.

Stationary Sources - Emergency Generators and Fire Pumps - The proposed project would include a diesel emergency backup generator.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	30.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00

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tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/24/2023	3/8/2024
tblConstructionPhase	PhaseEndDate	5/10/2023	1/5/2024
tblConstructionPhase	PhaseEndDate	12/16/2022	1/13/2023
tblConstructionPhase	PhaseEndDate	12/21/2022	1/20/2023
tblConstructionPhase	PhaseEndDate	5/17/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	12/19/2022	12/9/2022
tblConstructionPhase	PhaseStartDate	5/18/2023	1/29/2024
tblConstructionPhase	PhaseStartDate	12/22/2022	1/23/2023
tblConstructionPhase	PhaseStartDate	12/5/2022	12/12/2022
tblConstructionPhase	PhaseStartDate	12/20/2022	1/16/2023
tblConstructionPhase	PhaseStartDate	5/11/2023	1/8/2024
tblConstructionPhase	PhaseStartDate	12/17/2022	12/5/2022
tblGrading	MaterialImported	0.00	45.00
tblLandUse	LotAcreage	0.20	0.11
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	350.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.13
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	44.00
tblVehicleTrips	WD_TR	22.59	0.00

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					
2022	7.5200e-003	0.0673	0.0740	1.4000e-004	5.2200e-003	3.2000e-003	8.4200e-003	1.0100e-003	3.0300e-003	4.0400e-003	0.0000	12.2788	12.2788	2.2100e-003	1.2000e-004	12.3696
2023	0.0997	0.8742	1.1014	2.0700e-003	0.0732	0.0421	0.1153	0.0223	0.0388	0.0611	0.0000	185.2776	185.2776	0.0432	2.5100e-003	187.1032
2024	0.0706	0.0739	0.1123	2.0000e-004	5.1000e-003	3.4700e-003	8.5800e-003	1.3600e-003	3.2900e-003	4.6500e-003	0.0000	17.5446	17.5446	3.1800e-003	1.2000e-004	17.6608
Maximum	0.0997	0.8742	1.1014	2.0700e-003	0.0732	0.0421	0.1153	0.0223	0.0388	0.0611	0.0000	185.2776	185.2776	0.0432	2.5100e-003	187.1032

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					
2022	5.1500e-003	0.1011	0.0823	1.4000e-004	3.6800e-003	3.6400e-003	7.3200e-003	8.1000e-004	3.6400e-003	4.4400e-003	0.0000	12.2788	12.2788	2.2100e-003	1.2000e-004	12.3696
2023	0.0778	1.4271	1.2165	2.0700e-003	0.0653	0.0505	0.1158	0.0187	0.0504	0.0691	0.0000	185.2774	185.2774	0.0432	2.5100e-003	187.1030
2024	0.0678	0.1263	0.1140	2.0000e-004	5.1000e-003	4.7000e-003	9.8100e-003	1.3600e-003	4.7000e-003	6.0600e-003	0.0000	17.5446	17.5446	3.1800e-003	1.2000e-004	17.6608
Maximum	0.0778	1.4271	1.2165	2.0700e-003	0.0653	0.0505	0.1158	0.0187	0.0504	0.0691	0.0000	185.2774	185.2774	0.0432	2.5100e-003	187.1030

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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
Percent Reduction	15.23	-62.94	-9.70	0.00	11.24	-20.47	-0.45	15.46	-30.17	-14.04	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	12-5-2022	3-4-2023	0.2273	0.3402
2	3-5-2023	6-4-2023	0.2443	0.3797
3	6-5-2023	9-4-2023	0.2440	0.3794
4	9-5-2023	12-4-2023	0.2420	0.3759
5	12-5-2023	3-4-2024	0.1955	0.2772
6	3-5-2024	6-4-2024	0.0078	0.0093
		Highest	0.2443	0.3797

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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	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Energy	7.1000e-004	6.4600e-003	5.4300e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	35.9085	35.9085	2.5700e-003	4.2000e-004	36.0992
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
Stationary	0.0144	0.0401	0.0366	7.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	6.6640	6.6640	9.3000e-004	0.0000	6.6873
Waste						0.0000	0.0000		0.0000	0.0000	2.4136	0.0000	2.4136	0.1426	0.0000	5.9795
Water						0.0000	0.0000		0.0000	0.0000	0.8055	8.9288	9.7342	0.0835	2.0400e-003	12.4306
Total	0.0679	0.0466	0.0425	1.1000e-004	0.0000	2.6000e-003	2.6000e-003	0.0000	2.6000e-003	2.6000e-003	3.2190	51.5021	54.7211	0.2296	2.4600e-003	61.1976

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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	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Energy	6.4000e-004	5.8400e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	30.5102	30.5102	2.1600e-003	3.6000e-004	30.6726
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
Stationary	0.0144	0.0401	0.0366	7.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	6.6640	6.6640	9.3000e-004	0.0000	6.6873
Waste						0.0000	0.0000		0.0000	0.0000	2.4136	0.0000	2.4136	0.1426	0.0000	5.9795
Water						0.0000	0.0000		0.0000	0.0000	0.6444	7.5692	8.2136	0.0668	1.6400e-003	10.3729
Total	0.0678	0.0460	0.0420	1.1000e-004	0.0000	2.5500e-003	2.5500e-003	0.0000	2.5500e-003	2.5500e-003	3.0579	44.7442	47.8022	0.2126	2.0000e-003	53.7132

	ROG	NOx	CO	SO2	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	0.10	1.33	1.25	0.00	0.00	1.92	1.92	0.00	1.92	1.92	5.00	13.12	12.64	7.43	18.70	12.23

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	12/12/2022	1/13/2023	5	25	
2	Mobilization	Site Preparation	12/5/2022	12/9/2022	5	5	

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3	Grading & Undergrounding of Utilities	Grading	1/16/2023	1/20/2023	5	5
4	Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Building Construction	1/23/2023	1/5/2024	5	250
5	Paving & Off-site Work	Paving	1/8/2024	1/26/2024	5	15
6	Architectural Coating, Site Works, & Landscaping	Architectural Coating	1/29/2024	3/8/2024	5	30

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,170; Non-Residential Outdoor: 6,390; Striped Parking Area: 528 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading & Undergrounding of Utilities	Graders	1	6.00	187	0.41
Grading & Undergrounding of Utilities	Rubber Tired Dozers	1	6.00	247	0.40
Grading & Undergrounding of Utilities	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Cranes	1	4.00	231	0.29
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Forklifts	2	6.00	89	0.20
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving & Off-site Work	Cement and Mortar Mixers	4	6.00	9	0.56
Paving & Off-site Work	Pavers	1	7.00	130	0.42
Paving & Off-site Work	Rollers	1	7.00	80	0.38

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Paving & Off-site Work	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating, Site Works, & Landscaping	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Mobilization	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	24.00	0.00	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Underpinning of Utility	3	24.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Substructure, Superstructure Shell, & Paving & Off-site Work	5	40.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating, Site Works, & Landscaping	7	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating, Site Works, & Landscaping	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Demolition - 2022

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					1.4800e-003	0.0000	1.4800e-003	2.2000e-004	0.0000	2.2000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.3200e-003	0.0481	0.0560	9.0000e-005		2.5300e-003	2.5300e-003		2.4200e-003	2.4200e-003	0.0000	7.8102	7.8102	1.4400e-003	0.0000	7.8462
Total	5.3200e-003	0.0481	0.0560	9.0000e-005	1.4800e-003	2.5300e-003	4.0100e-003	2.2000e-004	2.4200e-003	2.6400e-003	0.0000	7.8102	7.8102	1.4400e-003	0.0000	7.8462

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	3.0000e-005	1.2200e-003	2.7000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4262	0.4262	2.0000e-005	7.0000e-005	0.4469
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	6.2000e-004	5.1000e-004	6.6800e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6327	1.6327	5.0000e-005	4.0000e-005	1.6471
Total	6.5000e-004	1.7300e-003	6.9500e-003	2.0000e-005	2.0900e-003	2.0000e-005	2.1200e-003	5.5000e-004	2.0000e-005	5.8000e-004	0.0000	2.0589	2.0589	7.0000e-005	1.1000e-004	2.0940

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3.2 Demolition - 2022

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					6.6000e-004	0.0000	6.6000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6300e-003	0.0778	0.0595	9.0000e-005		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	7.8102	7.8102	1.4400e-003	0.0000	7.8462
Total	3.6300e-003	0.0778	0.0595	9.0000e-005	6.6000e-004	3.0100e-003	3.6700e-003	1.0000e-004	3.0100e-003	3.1100e-003	0.0000	7.8102	7.8102	1.4400e-003	0.0000	7.8462

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	3.0000e-005	1.2200e-003	2.7000e-004	0.0000	1.2000e-004	1.0000e-005	1.3000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4262	0.4262	2.0000e-005	7.0000e-005	0.4469
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	6.2000e-004	5.1000e-004	6.6800e-003	2.0000e-005	1.9700e-003	1.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.6327	1.6327	5.0000e-005	4.0000e-005	1.6471
Total	6.5000e-004	1.7300e-003	6.9500e-003	2.0000e-005	2.0900e-003	2.0000e-005	2.1200e-003	5.5000e-004	2.0000e-005	5.8000e-004	0.0000	2.0589	2.0589	7.0000e-005	1.1000e-004	2.0940

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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					9.8000e-004	0.0000	9.8000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.2300e-003	0.0289	0.0370	6.0000e-005		1.4100e-003	1.4100e-003		1.3500e-003	1.3500e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
Total	3.2300e-003	0.0289	0.0370	6.0000e-005	9.8000e-004	1.4100e-003	2.3900e-003	1.5000e-004	1.3500e-003	1.5000e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328

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	1.0000e-005	6.3000e-004	1.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2683	0.2683	1.0000e-005	4.0000e-005	0.2814
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	3.8000e-004	3.0000e-004	4.1000e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0598	1.0598	3.0000e-005	3.0000e-005	1.0686
Total	3.9000e-004	9.3000e-004	4.2600e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.3281	1.3281	4.0000e-005	7.0000e-005	1.3500

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Fugitive Dust					4.4000e-004	0.0000	4.4000e-004	7.0000e-005	0.0000	7.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4200e-003	0.0518	0.0397	6.0000e-005		2.0100e-003	2.0100e-003		2.0100e-003	2.0100e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328
Total	2.4200e-003	0.0518	0.0397	6.0000e-005	4.4000e-004	2.0100e-003	2.4500e-003	7.0000e-005	2.0100e-003	2.0800e-003	0.0000	5.2091	5.2091	9.5000e-004	0.0000	5.2328

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	1.0000e-005	6.3000e-004	1.6000e-004	0.0000	8.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	3.0000e-005	0.0000	0.2683	0.2683	1.0000e-005	4.0000e-005	0.2814
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	3.8000e-004	3.0000e-004	4.1000e-003	1.0000e-005	1.3100e-003	1.0000e-005	1.3200e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.0598	1.0598	3.0000e-005	3.0000e-005	1.0686
Total	3.9000e-004	9.3000e-004	4.2600e-003	1.0000e-005	1.3900e-003	1.0000e-005	1.4000e-003	3.7000e-004	1.0000e-005	3.9000e-004	0.0000	1.3281	1.3281	4.0000e-005	7.0000e-005	1.3500

Fire Station No. 9 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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					1.3300e-003	0.0000	1.3300e-003	1.4000e-004	0.0000	1.4000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	0.0173	9.9000e-003	2.0000e-005		6.4000e-004	6.4000e-004		5.9000e-004	5.9000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	1.4500e-003	0.0173	9.9000e-003	2.0000e-005	1.3300e-003	6.4000e-004	1.9700e-003	1.4000e-004	5.9000e-004	7.3000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549

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	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	1.0000e-005	0.2745
Total	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	1.0000e-005	0.2745

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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					6.0000e-004	0.0000	6.0000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.7000e-004	0.0216	0.0146	2.0000e-005		6.0000e-004	6.0000e-004		6.0000e-004	6.0000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549
Total	7.7000e-004	0.0216	0.0146	2.0000e-005	6.0000e-004	6.0000e-004	1.2000e-003	6.0000e-005	6.0000e-004	6.6000e-004	0.0000	2.1376	2.1376	6.9000e-004	0.0000	2.1549

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	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	1.0000e-005	0.2745
Total	1.0000e-004	9.0000e-005	1.1100e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2721	0.2721	1.0000e-005	1.0000e-005	0.2745

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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					0.0133	0.0000	0.0133	6.4200e-003	0.0000	6.4200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3300e-003	0.0255	0.0139	4.0000e-005		1.0500e-003	1.0500e-003		9.7000e-004	9.7000e-004	0.0000	3.0953	3.0953	1.0000e-003	0.0000	3.1203
Total	2.3300e-003	0.0255	0.0139	4.0000e-005	0.0133	1.0500e-003	0.0143	6.4200e-003	9.7000e-004	7.3900e-003	0.0000	3.0953	3.0953	1.0000e-003	0.0000	3.1203

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	1.0000e-005	4.1000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1750	0.1750	1.0000e-005	3.0000e-005	0.1835
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	1.9000e-004	1.5000e-004	2.0500e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5299	0.5299	1.0000e-005	1.0000e-005	0.5343
Total	2.0000e-004	5.6000e-004	2.1600e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.8000e-004	0.0000	2.0000e-004	0.0000	0.7049	0.7049	2.0000e-005	4.0000e-005	0.7178

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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	tons/yr										MT/yr					
Fugitive Dust					5.9800e-003	0.0000	5.9800e-003	2.8900e-003	0.0000	2.8900e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.0100e-003	0.0307	0.0202	4.0000e-005		7.8000e-004	7.8000e-004		7.8000e-004	7.8000e-004	0.0000	3.0953	3.0953	1.0000e-003	0.0000	3.1203
Total	1.0100e-003	0.0307	0.0202	4.0000e-005	5.9800e-003	7.8000e-004	6.7600e-003	2.8900e-003	7.8000e-004	3.6700e-003	0.0000	3.0953	3.0953	1.0000e-003	0.0000	3.1203

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	1.0000e-005	4.1000e-004	1.1000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1750	0.1750	1.0000e-005	3.0000e-005	0.1835
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	1.9000e-004	1.5000e-004	2.0500e-003	1.0000e-005	6.6000e-004	0.0000	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5299	0.5299	1.0000e-005	1.0000e-005	0.5343
Total	2.0000e-004	5.6000e-004	2.1600e-003	1.0000e-005	7.1000e-004	0.0000	7.1000e-004	1.8000e-004	0.0000	2.0000e-004	0.0000	0.7049	0.7049	2.0000e-005	4.0000e-005	0.7178

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	0.0775	0.7863	0.8694	1.4000e-003		0.0392	0.0392		0.0361	0.0361	0.0000	122.7553	122.7553	0.0397	0.0000	123.7479
Total	0.0775	0.7863	0.8694	1.4000e-003		0.0392	0.0392		0.0361	0.0361	0.0000	122.7553	122.7553	0.0397	0.0000	123.7479

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	5.5000e-004	0.0198	7.3900e-003	9.0000e-005	3.0900e-003	9.0000e-005	3.1800e-003	8.9000e-004	9.0000e-005	9.8000e-004	0.0000	8.9093	8.9093	3.0000e-004	1.2800e-003	9.2988
Worker	0.0156	0.0124	0.1674	4.7000e-004	0.0537	3.3000e-004	0.0540	0.0143	3.0000e-004	0.0146	0.0000	43.2757	43.2757	1.1400e-003	1.1100e-003	43.6356
Total	0.0161	0.0321	0.1748	5.6000e-004	0.0568	4.2000e-004	0.0572	0.0152	3.9000e-004	0.0156	0.0000	52.1849	52.1849	1.4400e-003	2.3900e-003	52.9344

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	tons/yr										MT/yr					
Off-Road	0.0576	1.3110	0.9754	1.4000e-003		0.0472	0.0472		0.0472	0.0472	0.0000	122.7552	122.7552	0.0397	0.0000	123.7477
Total	0.0576	1.3110	0.9754	1.4000e-003		0.0472	0.0472		0.0472	0.0472	0.0000	122.7552	122.7552	0.0397	0.0000	123.7477

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	5.5000e-004	0.0198	7.3900e-003	9.0000e-005	3.0900e-003	9.0000e-005	3.1800e-003	8.9000e-004	9.0000e-005	9.8000e-004	0.0000	8.9093	8.9093	3.0000e-004	1.2800e-003	9.2988
Worker	0.0156	0.0124	0.1674	4.7000e-004	0.0537	3.3000e-004	0.0540	0.0143	3.0000e-004	0.0146	0.0000	43.2757	43.2757	1.1400e-003	1.1100e-003	43.6356
Total	0.0161	0.0321	0.1748	5.6000e-004	0.0568	4.2000e-004	0.0572	0.0152	3.9000e-004	0.0156	0.0000	52.1849	52.1849	1.4400e-003	2.3900e-003	52.9344

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	1.4900e-003	0.0149	0.0177	3.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	2.5061	2.5061	8.1000e-004	0.0000	2.5263
Total	1.4900e-003	0.0149	0.0177	3.0000e-005		7.1000e-004	7.1000e-004		6.5000e-004	6.5000e-004	0.0000	2.5061	2.5061	8.1000e-004	0.0000	2.5263

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	4.0000e-004	1.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1791	0.1791	1.0000e-005	3.0000e-005	0.1869
Worker	3.0000e-004	2.3000e-004	3.1800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8650	0.8650	2.0000e-005	2.0000e-005	0.8718
Total	3.1000e-004	6.3000e-004	3.3300e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0441	1.0441	3.0000e-005	5.0000e-005	1.0588

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	tons/yr										MT/yr					
Off-Road	1.1800e-003	0.0268	0.0199	3.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	2.5061	2.5061	8.1000e-004	0.0000	2.5263
Total	1.1800e-003	0.0268	0.0199	3.0000e-005		9.6000e-004	9.6000e-004		9.6000e-004	9.6000e-004	0.0000	2.5061	2.5061	8.1000e-004	0.0000	2.5263

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	4.0000e-004	1.5000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1791	0.1791	1.0000e-005	3.0000e-005	0.1869
Worker	3.0000e-004	2.3000e-004	3.1800e-003	1.0000e-005	1.1000e-003	1.0000e-005	1.1000e-003	2.9000e-004	1.0000e-005	3.0000e-004	0.0000	0.8650	0.8650	2.0000e-005	2.0000e-005	0.8718
Total	3.1000e-004	6.3000e-004	3.3300e-003	1.0000e-005	1.1600e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0441	1.0441	3.0000e-005	5.0000e-005	1.0588

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving & Off-site Work - 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	4.4300e-003	0.0392	0.0527	8.0000e-005		1.8200e-003	1.8200e-003		1.7000e-003	1.7000e-003	0.0000	7.0505	7.0505	2.0500e-003	0.0000	7.1018
Paving	1.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.5700e-003	0.0392	0.0527	8.0000e-005		1.8200e-003	1.8200e-003		1.7000e-003	1.7000e-003	0.0000	7.0505	7.0505	2.0500e-003	0.0000	7.1018

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	9.8000e-004	7.4000e-004	0.0105	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8546	2.8546	7.0000e-005	7.0000e-005	2.8771
Total	9.8000e-004	7.4000e-004	0.0105	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8546	2.8546	7.0000e-005	7.0000e-005	2.8771

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3.6 Paving & Off-site Work - 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	tons/yr										MT/yr					
Off-Road	2.9700e-003	0.0628	0.0518	8.0000e-005		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	7.0504	7.0504	2.0500e-003	0.0000	7.1018
Paving	1.4000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.1100e-003	0.0628	0.0518	8.0000e-005		2.2800e-003	2.2800e-003		2.2800e-003	2.2800e-003	0.0000	7.0504	7.0504	2.0500e-003	0.0000	7.1018

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	9.8000e-004	7.4000e-004	0.0105	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8546	2.8546	7.0000e-005	7.0000e-005	2.8771
Total	9.8000e-004	7.4000e-004	0.0105	3.0000e-005	3.6200e-003	2.0000e-005	3.6400e-003	9.6000e-004	2.0000e-005	9.8000e-004	0.0000	2.8546	2.8546	7.0000e-005	7.0000e-005	2.8771

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating, Site Works, & Landscaping - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.0605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7100e-003	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	0.0632	0.0183	0.0272	4.0000e-005		9.1000e-004	9.1000e-004		9.1000e-004	9.1000e-004	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

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	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2595	0.2595	1.0000e-005	1.0000e-005	0.2616
Total	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2595	0.2595	1.0000e-005	1.0000e-005	0.2616

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3.7 Architectural Coating, Site Works, & Landscaping - 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	tons/yr										MT/yr					
Archit. Coating	0.0605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.7100e-003	0.0353	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353
Total	0.0622	0.0353	0.0275	4.0000e-005		1.4300e-003	1.4300e-003		1.4300e-003	1.4300e-003	0.0000	3.8299	3.8299	2.2000e-004	0.0000	3.8353

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	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2595	0.2595	1.0000e-005	1.0000e-005	0.2616
Total	9.0000e-005	7.0000e-005	9.5000e-004	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2595	0.2595	1.0000e-005	1.0000e-005	0.2616

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	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	0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	0.00	0.00	0.00		
Parking Lot	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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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	24.1555	24.1555	2.0400e-003	2.5000e-004	24.2801
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	28.8772	28.8772	2.4400e-003	3.0000e-004	29.0262
NaturalGas Mitigated	6.4000e-004	5.8400e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3548	6.3548	1.2000e-004	1.2000e-004	6.3925
NaturalGas Unmitigated	7.1000e-004	6.4600e-003	5.4300e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0313	7.0313	1.3000e-004	1.3000e-004	7.0731

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	tons/yr										MT/yr					
Government Office Building	131762	7.1000e-004	6.4600e-003	5.4300e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0313	7.0313	1.3000e-004	1.3000e-004	7.0731
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
Total		7.1000e-004	6.4600e-003	5.4300e-003	4.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0313	7.0313	1.3000e-004	1.3000e-004	7.0731

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					
Government Office Building	119084	6.4000e-004	5.8400e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3548	6.3548	1.2000e-004	1.2000e-004	6.3925
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
Total		6.4000e-004	5.8400e-003	4.9000e-003	4.0000e-005		4.4000e-004	4.4000e-004		4.4000e-004	4.4000e-004	0.0000	6.3548	6.3548	1.2000e-004	1.2000e-004	6.3925

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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			
Government Office Building	159750	28.3310	2.3900e-003	2.9000e-004	28.4771
Parking Lot	3080	0.5462	5.0000e-005	1.0000e-005	0.5490
Total		28.8772	2.4400e-003	3.0000e-004	29.0262

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	133711	23.7130	2.0000e-003	2.4000e-004	23.8353
Parking Lot	2494.8	0.4424	4.0000e-005	0.0000	0.4447
Total		24.1555	2.0400e-003	2.4000e-004	24.2801

6.0 Area Detail

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6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Unmitigated	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004

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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	6.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Total	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004

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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	6.0500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0468					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004
Total	0.0528	0.0000	4.4000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	8.6000e-004	8.6000e-004	0.0000	0.0000	9.2000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	8.2136	0.0668	1.6400e-003	10.3729
Unmitigated	9.7342	0.0835	2.0400e-003	12.4306

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.53887 / 1.55608	9.7342	0.0835	2.0400e-003	12.4306
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		9.7342	0.0835	2.0400e-003	12.4306

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	2.0311 / 1.46116	8.2136	0.0668	1.6400e-003	10.3729
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		8.2136	0.0668	1.6400e-003	10.3729

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	2.4136	0.1426	0.0000	5.9795
Unmitigated	2.4136	0.1426	0.0000	5.9795

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	11.89	2.4136	0.1426	0.0000	5.9795
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		2.4136	0.1426	0.0000	5.9795

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	11.89	2.4136	0.1426	0.0000	5.9795
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		2.4136	0.1426	0.0000	5.9795

9.0 Operational Offroad

Fire Station No. 9 - Los Angeles-South Coast County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Emergency Generator	1	0.13	50	350	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (300 - 600 HP)	0.0144	0.0401	0.0366	7.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	6.6640	6.6640	9.3000e-004	0.0000	6.6873
Total	0.0144	0.0401	0.0366	7.0000e-005		2.1100e-003	2.1100e-003		2.1100e-003	2.1100e-003	0.0000	6.6640	6.6640	9.3000e-004	0.0000	6.6873

11.0 Vegetation

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fire Station No. 9

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	12.78	1000sqft	0.29	12,780.00	0
Parking Lot	22.00	Space	0.11	8,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The proposed project would construct a 12,780 sf two-story fire station.

Construction Phase - Assuming that construction will begin in Winter 2022 and occur for approximately 16 months.

Trips and VMT - Worker trips are based on construction trip generation prepared by LSA and defaults for architectural coating.

Demolition - The project would demolish the existing 5,000 sf office building.

Grading - Based on the preliminary grading plans, approximately 45 cubic yards of fill material would be required to be imported to the project site.

Vehicle Trips - The proposed project is intended to meet the City's need to replace the original Fire Station No. 9; therefore, this analysis assumes that no new vehicle or fire engine trips would occur.

Construction Off-road Equipment Mitigation - Assuming use of Tier 2 construction equipment and compliance with SCAQMD Rule 403: Fugitive Dust measures.

Area Mitigation - Assuming use of low VOC paint consistent with SCAQMD Rule 1113

Energy Mitigation - The project would be designed to achieve Leadership in Energy and Environmental Design (LEED) Gold certification and would include solar panels on the roof, low LED lighting, and energy-efficient appliances.

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Mitigation - The proposed project would include low-flow plumbing features and low-flow irrigation systems.

Stationary Sources - Emergency Generators and Fire Pumps - The proposed project would include a diesel emergency backup generator.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	30.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/24/2023	3/8/2024
tblConstructionPhase	PhaseEndDate	5/10/2023	1/5/2024
tblConstructionPhase	PhaseEndDate	12/16/2022	1/13/2023
tblConstructionPhase	PhaseEndDate	12/21/2022	1/20/2023
tblConstructionPhase	PhaseEndDate	5/17/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	12/19/2022	12/9/2022
tblConstructionPhase	PhaseStartDate	5/18/2023	1/29/2024
tblConstructionPhase	PhaseStartDate	12/22/2022	1/23/2023
tblConstructionPhase	PhaseStartDate	12/5/2022	12/12/2022
tblConstructionPhase	PhaseStartDate	12/20/2022	1/16/2023
tblConstructionPhase	PhaseStartDate	5/11/2023	1/8/2024
tblConstructionPhase	PhaseStartDate	12/17/2022	12/5/2022
tblGrading	MaterialImported	0.00	45.00
tblLandUse	LotAcreage	0.20	0.11
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	350.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.13
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	44.00
tblVehicleTrips	WD_TR	22.59	0.00

2.0 Emissions Summary

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	0.7968	6.9636	8.4513	0.0150	0.6644	0.3404	0.9226	0.1054	0.3252	0.4306	0.0000	1,460.164 3	1,460.164 3	0.3082	0.0160	1,470.465 0
2023	1.0130	10.3890	8.6060	0.0172	5.6022	0.4227	6.0249	2.6456	0.3889	3.0345	0.0000	1,684.917 6	1,684.917 6	0.4517	0.0208	1,701.510 1
2024	4.2173	6.2075	8.5155	0.0160	0.4918	0.2857	0.7585	0.1304	0.2629	0.3889	0.0000	1,580.588 8	1,580.588 8	0.3692	0.0200	1,595.761 5
Maximum	4.2173	10.3890	8.6060	0.0172	5.6022	0.4227	6.0249	2.6456	0.3889	3.0345	0.0000	1,684.917 6	1,684.917 6	0.4517	0.0208	1,701.510 1

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	lb/day										lb/day					
2022	0.5717	10.5828	8.9200	0.0150	0.3730	0.4046	0.7775	0.0890	0.4044	0.4934	0.0000	1,460.164 3	1,460.164 3	0.3082	0.0160	1,470.465 0
2023	0.6031	12.4735	9.4714	0.0172	2.6801	0.4041	2.9933	1.2328	0.4039	1.5459	0.0000	1,684.917 6	1,684.917 6	0.4517	0.0208	1,701.510 1
2024	4.1505	10.9354	9.3699	0.0160	0.4918	0.3888	0.8616	0.1304	0.3886	0.5146	0.0000	1,580.588 8	1,580.588 8	0.3692	0.0200	1,595.761 5
Maximum	4.1505	12.4735	9.4714	0.0172	2.6801	0.4046	2.9933	1.2328	0.4044	1.5459	0.0000	1,684.917 6	1,684.917 6	0.4517	0.0208	1,701.510 1

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	11.64	-44.28	-8.56	0.00	47.55	-14.17	39.89	49.60	-22.50	33.74	0.00	0.00	0.00	0.00	0.00	0.00

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	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219
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
Stationary	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.3682	0.2441	0.2237	5.7000e-004	0.0000	0.0137	0.0137	0.0000	0.0137	0.0137		80.6751	80.6751	6.1900e-003	7.8000e-004	81.0618

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Area	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Energy	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
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
Stationary	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.3678	0.2407	0.2208	5.5000e-004	0.0000	0.0134	0.0134	0.0000	0.0134	0.0134		76.5888	76.5888	6.1200e-003	7.0000e-004	76.9512

	ROG	NOx	CO	SO2	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	0.10	1.39	1.28	3.51	0.00	1.90	1.90	0.00	1.90	1.90	0.00	5.07	5.07	1.13	10.26	5.07

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	12/12/2022	1/13/2023	5	25	
2	Mobilization	Site Preparation	12/5/2022	12/9/2022	5	5	
3	Grading & Undergrounding of Utilities	Grading	1/16/2023	1/20/2023	5	5	
4	Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Building Construction	1/23/2023	1/5/2024	5	250	

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Paving & Off-site Work	Paving	1/8/2024	1/26/2024	5	15
6	Architectural Coating, Site Works, & Landscaping	Architectural Coating	1/29/2024	3/8/2024	5	30

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,170; Non-Residential Outdoor: 6,390; Striped Parking Area: 528 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading & Undergrounding of Utilities	Graders	1	6.00	187	0.41
Grading & Undergrounding of Utilities	Rubber Tired Dozers	1	6.00	247	0.40
Grading & Undergrounding of Utilities	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Cranes	1	4.00	231	0.29
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Forklifts	2	6.00	89	0.20
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving & Off-site Work	Cement and Mortar Mixers	4	6.00	9	0.56
Paving & Off-site Work	Pavers	1	7.00	130	0.42
Paving & Off-site Work	Rollers	1	7.00	80	0.38
Paving & Off-site Work	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating, Site Works, & Landscaping	Air Compressors	1	6.00	78	0.48

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Mobilization	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	24.00	0.00	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Underpinning of Utility	3	24.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Substructure, Superstructure Shell, I	5	40.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Off-site Work	7	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating, Site Works & Landsc	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

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					0.1969	0.0000	0.1969	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.1969	0.3375	0.5344	0.0298	0.3225	0.3524		1,147.9025	1,147.9025	0.2119		1,153.2001

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	4.2900e-003	0.1545	0.0360	5.7000e-004	0.0161	1.1500e-003	0.0173	4.4200e-003	1.1000e-003	5.5100e-003		62.6314	62.6314	3.3300e-003	9.9400e-003	65.6758
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	0.0831	0.0606	0.9459	2.4500e-003	0.2683	1.7200e-003	0.2700	0.0711	1.5800e-003	0.0727		249.6305	249.6305	6.7600e-003	6.0100e-003	251.5891
Total	0.0874	0.2152	0.9820	3.0200e-003	0.2844	2.8700e-003	0.2872	0.0756	2.6800e-003	0.0782		312.2618	312.2618	0.0101	0.0160	317.2649

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					0.0886	0.0000	0.0886	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.4844	10.3677	7.9381	0.0120	0.0886	0.4017	0.4903	0.0134	0.4017	0.4151	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	4.2900e-003	0.1545	0.0360	5.7000e-004	0.0161	1.1500e-003	0.0173	4.4200e-003	1.1000e-003	5.5100e-003		62.6314	62.6314	3.3300e-003	9.9400e-003	65.6758
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	0.0831	0.0606	0.9459	2.4500e-003	0.2683	1.7200e-003	0.2700	0.0711	1.5800e-003	0.0727		249.6305	249.6305	6.7600e-003	6.0100e-003	251.5891
Total	0.0874	0.2152	0.9820	3.0200e-003	0.2844	2.8700e-003	0.2872	0.0756	2.6800e-003	0.0782		312.2618	312.2618	0.0101	0.0160	317.2649

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					0.1969	0.0000	0.1969	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.1969	0.2821	0.4790	0.0298	0.2698	0.2996		1,148.4055	1,148.4055	0.2089		1,153.6290

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Hauling	2.0000e-003	0.1201	0.0320	5.4000e-004	0.0161	7.6000e-004	0.0169	4.4200e-003	7.2000e-004	5.1400e-003		59.1247	59.1247	3.2600e-003	9.3900e-003	62.0041
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	0.0769	0.0536	0.8697	2.3700e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		243.0271	243.0271	6.0500e-003	5.5400e-003	244.8290
Total	0.0789	0.1736	0.9017	2.9100e-003	0.2844	2.3800e-003	0.2867	0.0756	2.2100e-003	0.0778		302.1518	302.1518	9.3100e-003	0.0149	306.8331

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					0.0886	0.0000	0.0886	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.4844	10.3677	7.9381	0.0120	0.0886	0.4017	0.4903	0.0134	0.4017	0.4151	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Hauling	2.0000e-003	0.1201	0.0320	5.4000e-004	0.0161	7.6000e-004	0.0169	4.4200e-003	7.2000e-004	5.1400e-003		59.1247	59.1247	3.2600e-003	9.3900e-003	62.0041
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	0.0769	0.0536	0.8697	2.3700e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		243.0271	243.0271	6.0500e-003	5.5400e-003	244.8290
Total	0.0789	0.1736	0.9017	2.9100e-003	0.2844	2.3800e-003	0.2867	0.0756	2.2100e-003	0.0778		302.1518	302.1518	9.3100e-003	0.0149	306.8331

3.3 Mobilization - 2022

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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	0.0415	0.0303	0.4730	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.8153	124.8153	3.3800e-003	3.0000e-003	125.7945
Total	0.0415	0.0303	0.4730	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.8153	124.8153	3.3800e-003	3.0000e-003	125.7945

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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7300e-003		0.2405	0.2405		0.2405	0.2405	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.3079	8.6185	5.8579	9.7300e-003	0.2386	0.2405	0.4791	0.0258	0.2405	0.2663	0.0000	942.5179	942.5179	0.3048		950.1386

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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	0.0415	0.0303	0.4730	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.8153	124.8153	3.3800e-003	3.0000e-003	125.7945
Total	0.0415	0.0303	0.4730	1.2300e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		124.8153	124.8153	3.3800e-003	3.0000e-003	125.7945

3.4 Grading & Undergrounding of Utilities - 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					5.3130	0.0000	5.3130	2.5687	0.0000	2.5687			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865		1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	5.3130	0.4201	5.7331	2.5687	0.3865	2.9552		1,364.7713	1,364.7713	0.4414		1,375.8062

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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	2.6000e-003	0.1566	0.0418	7.0000e-004	0.0210	9.9000e-004	0.0220	5.7600e-003	9.4000e-004	6.7000e-003		77.1192	77.1192	4.2500e-003	0.0123	80.8749
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	0.0769	0.0536	0.8697	2.3700e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		243.0271	243.0271	6.0500e-003	5.5400e-003	244.8290
Total	0.0795	0.2102	0.9115	3.0700e-003	0.2893	2.6100e-003	0.2919	0.0769	2.4300e-003	0.0793		320.1463	320.1463	0.0103	0.0178	325.7039

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					2.3908	0.0000	2.3908	1.1559	0.0000	1.1559			0.0000			0.0000
Off-Road	0.4059	12.2633	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.4059	12.2633	8.0841	0.0141	2.3908	0.3106	2.7014	1.1559	0.3106	1.4665	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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	2.6000e-003	0.1566	0.0418	7.0000e-004	0.0210	9.9000e-004	0.0220	5.7600e-003	9.4000e-004	6.7000e-003		77.1192	77.1192	4.2500e-003	0.0123	80.8749
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	0.0769	0.0536	0.8697	2.3700e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		243.0271	243.0271	6.0500e-003	5.5400e-003	244.8290
Total	0.0795	0.2102	0.9115	3.0700e-003	0.2893	2.6100e-003	0.2919	0.0769	2.4300e-003	0.0793		320.1463	320.1463	0.0103	0.0178	325.7039

3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes - 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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	4.6100e-003	0.1535	0.0595	7.4000e-004	0.0256	7.7000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.1130	80.1130	2.6800e-003	0.0115	83.6124
Worker	0.1281	0.0893	1.4495	3.9600e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		405.0451	405.0451	0.0101	9.2300e-003	408.0483
Total	0.1327	0.2428	1.5090	4.7000e-003	0.4727	3.4700e-003	0.4762	0.1260	3.2200e-003	0.1292		485.1581	485.1581	0.0128	0.0208	491.6608

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	4.6100e-003	0.1535	0.0595	7.4000e-004	0.0256	7.7000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.1130	80.1130	2.6800e-003	0.0115	83.6124
Worker	0.1281	0.0893	1.4495	3.9600e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		405.0451	405.0451	0.0101	9.2300e-003	408.0483
Total	0.1327	0.2428	1.5090	4.7000e-003	0.4727	3.4700e-003	0.4762	0.1260	3.2200e-003	0.1292		485.1581	485.1581	0.0128	0.0208	491.6608

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	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	4.4600e-003	0.1539	0.0582	7.3000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		78.9098	78.9098	2.6900e-003	0.0114	82.3616
Worker	0.1194	0.0798	1.3492	3.8500e-003	0.4471	2.5900e-003	0.4497	0.1186	2.3800e-003	0.1210		396.6956	396.6956	9.1300e-003	8.5900e-003	399.4821
Total	0.1239	0.2336	1.4074	4.5800e-003	0.4727	3.3700e-003	0.4761	0.1260	3.1200e-003	0.1291		475.6054	475.6054	0.0118	0.0200	481.8437

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	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	4.4600e-003	0.1539	0.0582	7.3000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		78.9098	78.9098	2.6900e-003	0.0114	82.3616
Worker	0.1194	0.0798	1.3492	3.8500e-003	0.4471	2.5900e-003	0.4497	0.1186	2.3800e-003	0.1210		396.6956	396.6956	9.1300e-003	8.5900e-003	399.4821
Total	0.1239	0.2336	1.4074	4.5800e-003	0.4727	3.3700e-003	0.4761	0.1260	3.1200e-003	0.1291		475.6054	475.6054	0.0118	0.0200	481.8437

3.6 Paving & Off-site Work - 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	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6096	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving & Off-site Work - 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	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	0.1313	0.0877	1.4841	4.2300e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		436.3652	436.3652	0.0100	9.4400e-003	439.4304
Total	0.1313	0.0877	1.4841	4.2300e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		436.3652	436.3652	0.0100	9.4400e-003	439.4304

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4146	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving & Off-site Work - 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	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	0.1313	0.0877	1.4841	4.2300e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		436.3652	436.3652	0.0100	9.4400e-003	439.4304
Total	0.1313	0.0877	1.4841	4.2300e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		436.3652	436.3652	0.0100	9.4400e-003	439.4304

3.7 Architectural Coating, Site Works, & Landscaping - 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					
Archit. Coating	4.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	4.2114	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating, Site Works, & Landscaping - 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	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	5.9700e-003	3.9900e-003	0.0675	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.8348	19.8348	4.6000e-004	4.3000e-004	19.9741
Total	5.9700e-003	3.9900e-003	0.0675	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.8348	19.8348	4.6000e-004	4.3000e-004	19.9741

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	4.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	4.1445	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating, Site Works, & Landscaping - 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	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	5.9700e-003	3.9900e-003	0.0675	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.8348	19.8348	4.6000e-004	4.3000e-004	19.9741
Total	5.9700e-003	3.9900e-003	0.0675	1.9000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		19.8348	19.8348	4.6000e-004	4.3000e-004	19.9741

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	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
Government Office Building	0.00	0.00	0.00		
Parking Lot	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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Parking Lot	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
Government Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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					
Natural Gas Mitigated	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
Natural Gas Unmitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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					
Government Office Building	360.991	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219
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
Total		3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219

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					
Government Office Building	0.326258	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
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
Total		3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113

6.0 Area Detail

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Unmitigated	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.6100e-003	7.6100e-003	2.0000e-005	8.1100e-003
Total	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.6100e-003	7.6100e-003	2.0000e-005	8.1100e-003

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Total	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Fire Station No. 9 - Los Angeles-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Emergency Generator	1	0.13	50	350	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number
----------------	--------

10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318

11.0 Vegetation

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fire Station No. 9

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	12.78	1000sqft	0.29	12,780.00	0
Parking Lot	22.00	Space	0.11	8,800.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	9			Operational Year	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	390.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The proposed project would construct a 12,780 sf two-story fire station.

Construction Phase - Assuming that construction will begin in Winter 2022 and occur for approximately 16 months.

Trips and VMT - Worker trips are based on construction trip generation prepared by LSA and defaults for architectural coating.

Demolition - The project would demolish the existing 5,000 sf office building.

Grading - Based on the preliminary grading plans, approximately 45 cubic yards of fill material would be required to be imported to the project site.

Vehicle Trips - The proposed project is intended to meet the City's need to replace the original Fire Station No. 9; therefore, this analysis assumes that no new vehicle or fire engine trips would occur.

Construction Off-road Equipment Mitigation - Assuming use of Tier 2 construction equipment and compliance with SCAQMD Rule 403: Fugitive Dust measures.

Area Mitigation - Assuming use of low VOC paint consistent with SCAQMD Rule 1113

Energy Mitigation - The project would be designed to achieve Leadership in Energy and Environmental Design (LEED) Gold certification and would include solar panels on the roof, low LED lighting, and energy-efficient appliances.

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Water Mitigation - The proposed project would include low-flow plumbing features and low-flow irrigation systems.

Stationary Sources - Emergency Generators and Fire Pumps - The proposed project would include a diesel emergency backup generator.

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstEquipMitigation	Tier	No Change	Tier 2
tblConstructionPhase	NumDays	5.00	30.00
tblConstructionPhase	NumDays	100.00	250.00
tblConstructionPhase	NumDays	10.00	25.00

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

tblConstructionPhase	NumDays	2.00	5.00
tblConstructionPhase	NumDays	5.00	15.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/24/2023	3/8/2024
tblConstructionPhase	PhaseEndDate	5/10/2023	1/5/2024
tblConstructionPhase	PhaseEndDate	12/16/2022	1/13/2023
tblConstructionPhase	PhaseEndDate	12/21/2022	1/20/2023
tblConstructionPhase	PhaseEndDate	5/17/2023	1/26/2024
tblConstructionPhase	PhaseEndDate	12/19/2022	12/9/2022
tblConstructionPhase	PhaseStartDate	5/18/2023	1/29/2024
tblConstructionPhase	PhaseStartDate	12/22/2022	1/23/2023
tblConstructionPhase	PhaseStartDate	12/5/2022	12/12/2022
tblConstructionPhase	PhaseStartDate	12/20/2022	1/16/2023
tblConstructionPhase	PhaseStartDate	5/11/2023	1/8/2024
tblConstructionPhase	PhaseStartDate	12/17/2022	12/5/2022
tblGrading	MaterialImported	0.00	45.00
tblLandUse	LotAcreage	0.20	0.11
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	350.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.13
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	WorkerTripNumber	10.00	24.00
tblTripsAndVMT	WorkerTripNumber	5.00	12.00
tblTripsAndVMT	WorkerTripNumber	8.00	24.00
tblTripsAndVMT	WorkerTripNumber	8.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	44.00
tblVehicleTrips	WD_TR	22.59	0.00

2.0 Emissions Summary

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	0.8025	6.9667	8.3745	0.0149	0.6644	0.3404	0.9226	0.1054	0.3252	0.4306	0.0000	1,446.984 2	1,446.984 2	0.3083	0.0164	1,457.410 3
2023	1.0185	10.4015	8.4907	0.0170	5.6022	0.4227	6.0249	2.6456	0.3889	3.0345	0.0000	1,672.186 2	1,672.186 2	0.4518	0.0214	1,688.897 0
2024	4.2178	6.2231	8.3967	0.0158	0.4918	0.2857	0.7585	0.1304	0.2629	0.3889	0.0000	1,559.845 1	1,559.845 1	0.3693	0.0206	1,575.203 1
Maximum	4.2178	10.4015	8.4907	0.0170	5.6022	0.4227	6.0249	2.6456	0.3889	3.0345	0.0000	1,672.186 2	1,672.186 2	0.4518	0.0214	1,688.897 0

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	lb/day										lb/day					
2022	0.5775	10.5955	8.8432	0.0149	0.3730	0.4046	0.7775	0.0890	0.4044	0.4934	0.0000	1,446.984 2	1,446.984 2	0.3083	0.0164	1,457.410 3
2023	0.6124	12.4860	9.3561	0.0170	2.6801	0.4041	2.9933	1.2328	0.4039	1.5459	0.0000	1,672.186 2	1,672.186 2	0.4518	0.0214	1,688.897 0
2024	4.1509	10.9510	9.2637	0.0158	0.4918	0.3888	0.8616	0.1304	0.3886	0.5146	0.0000	1,559.845 1	1,559.845 1	0.3693	0.0206	1,575.203 1
Maximum	4.1509	12.4860	9.3561	0.0170	2.6801	0.4046	2.9933	1.2328	0.4044	1.5459	0.0000	1,672.186 2	1,672.186 2	0.4518	0.0214	1,688.897 0

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	11.56	-44.26	-8.71	0.00	47.55	-14.17	39.89	49.60	-22.50	33.74	0.00	0.00	0.00	0.00	0.00	0.00

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	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Energy	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219
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
Stationary	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.3682	0.2441	0.2237	5.7000e-004	0.0000	0.0137	0.0137	0.0000	0.0137	0.0137		80.6751	80.6751	6.1900e-003	7.8000e-004	81.0618

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	lb/day										lb/day					
Area	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Energy	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
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
Stationary	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.3678	0.2407	0.2208	5.5000e-004	0.0000	0.0134	0.0134	0.0000	0.0134	0.0134		76.5888	76.5888	6.1200e-003	7.0000e-004	76.9512

	ROG	NOx	CO	SO2	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	0.10	1.39	1.28	3.51	0.00	1.90	1.90	0.00	1.90	1.90	0.00	5.07	5.07	1.13	10.26	5.07

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	12/12/2022	1/13/2023	5	25	
2	Mobilization	Site Preparation	12/5/2022	12/9/2022	5	5	
3	Grading & Undergrounding of Utilities	Grading	1/16/2023	1/20/2023	5	5	
4	Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Building Construction	1/23/2023	1/5/2024	5	250	

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5	Paving & Off-site Work	Paving	1/8/2024	1/26/2024	5	15
6	Architectural Coating, Site Works, & Landscaping	Architectural Coating	1/29/2024	3/8/2024	5	30

Acres of Grading (Site Preparation Phase): 2.5

Acres of Grading (Grading Phase): 3.75

Acres of Paving: 0.11

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 19,170; Non-Residential Outdoor: 6,390; Striped Parking Area: 528 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Mobilization	Graders	1	8.00	187	0.41
Mobilization	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading & Undergrounding of Utilities	Graders	1	6.00	187	0.41
Grading & Undergrounding of Utilities	Rubber Tired Dozers	1	6.00	247	0.40
Grading & Undergrounding of Utilities	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Cranes	1	4.00	231	0.29
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Forklifts	2	6.00	89	0.20
Substructure, Superstructure Shell, Interior Fit-out, & Finishes	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving & Off-site Work	Cement and Mortar Mixers	4	6.00	9	0.56
Paving & Off-site Work	Pavers	1	7.00	130	0.42
Paving & Off-site Work	Rollers	1	7.00	80	0.38
Paving & Off-site Work	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating, Site Works, & Landscaping	Air Compressors	1	6.00	78	0.48

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Mobilization	2	12.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	24.00	0.00	23.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading & Underpinning of Utility	3	24.00	0.00	6.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Substructure, Superstructure Shell, I	5	40.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving & Off-site Work	7	44.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating, Site Works & Landsc	1	2.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

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					0.1969	0.0000	0.1969	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	0.7094	6.4138	7.4693	0.0120		0.3375	0.3375		0.3225	0.3225		1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.7094	6.4138	7.4693	0.0120	0.1969	0.3375	0.5344	0.0298	0.3225	0.3524		1,147.9025	1,147.9025	0.2119		1,153.2001

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	4.1800e-003	0.1608	0.0367	5.7000e-004	0.0161	1.1500e-003	0.0173	4.4200e-003	1.1000e-003	5.5200e-003		62.6497	62.6497	3.3200e-003	9.9400e-003	65.6950
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	0.0889	0.0670	0.8685	2.3200e-003	0.2683	1.7200e-003	0.2700	0.0711	1.5800e-003	0.0727		236.4320	236.4320	6.8400e-003	6.4200e-003	238.5152
Total	0.0931	0.2278	0.9052	2.8900e-003	0.2844	2.8700e-003	0.2872	0.0756	2.6800e-003	0.0783		299.0817	299.0817	0.0102	0.0164	304.2102

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					0.0886	0.0000	0.0886	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001
Total	0.4844	10.3677	7.9381	0.0120	0.0886	0.4017	0.4903	0.0134	0.4017	0.4151	0.0000	1,147.9025	1,147.9025	0.2119		1,153.2001

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Demolition - 2022

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	4.1800e-003	0.1608	0.0367	5.7000e-004	0.0161	1.1500e-003	0.0173	4.4200e-003	1.1000e-003	5.5200e-003		62.6497	62.6497	3.3200e-003	9.9400e-003	65.6950
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	0.0889	0.0670	0.8685	2.3200e-003	0.2683	1.7200e-003	0.2700	0.0711	1.5800e-003	0.0727		236.4320	236.4320	6.8400e-003	6.4200e-003	238.5152
Total	0.0931	0.2278	0.9052	2.8900e-003	0.2844	2.8700e-003	0.2872	0.0756	2.6800e-003	0.0783		299.0817	299.0817	0.0102	0.0164	304.2102

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					0.1969	0.0000	0.1969	0.0298	0.0000	0.0298			0.0000			0.0000
Off-Road	0.6463	5.7787	7.3926	0.0120		0.2821	0.2821		0.2698	0.2698		1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.6463	5.7787	7.3926	0.0120	0.1969	0.2821	0.4790	0.0298	0.2698	0.2996		1,148.4055	1,148.4055	0.2089		1,153.6290

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Hauling	1.8700e-003	0.1253	0.0325	5.4000e-004	0.0161	7.6000e-004	0.0169	4.4200e-003	7.3000e-004	5.1400e-003		59.1871	59.1871	3.2500e-003	9.4000e-003	62.0693
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	0.0826	0.0592	0.7994	2.2500e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		230.2144	230.2144	6.1400e-003	5.9200e-003	232.1309
Total	0.0844	0.1845	0.8319	2.7900e-003	0.2844	2.3800e-003	0.2867	0.0756	2.2200e-003	0.0778		289.4015	289.4015	9.3900e-003	0.0153	294.2002

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					0.0886	0.0000	0.0886	0.0134	0.0000	0.0134			0.0000			0.0000
Off-Road	0.4844	10.3677	7.9381	0.0120		0.4017	0.4017		0.4017	0.4017	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290
Total	0.4844	10.3677	7.9381	0.0120	0.0886	0.4017	0.4903	0.0134	0.4017	0.4151	0.0000	1,148.4055	1,148.4055	0.2089		1,153.6290

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	lb/day										lb/day					
Hauling	1.8700e-003	0.1253	0.0325	5.4000e-004	0.0161	7.6000e-004	0.0169	4.4200e-003	7.3000e-004	5.1400e-003		59.1871	59.1871	3.2500e-003	9.4000e-003	62.0693
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	0.0826	0.0592	0.7994	2.2500e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		230.2144	230.2144	6.1400e-003	5.9200e-003	232.1309
Total	0.0844	0.1845	0.8319	2.7900e-003	0.2844	2.3800e-003	0.2867	0.0756	2.2200e-003	0.0778		289.4015	289.4015	9.3900e-003	0.0153	294.2002

3.3 Mobilization - 2022

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367		942.5179	942.5179	0.3048		950.1386
Total	0.5797	6.9332	3.9597	9.7300e-003	0.5303	0.2573	0.7876	0.0573	0.2367	0.2940		942.5179	942.5179	0.3048		950.1386

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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	0.0445	0.0335	0.4343	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		118.2160	118.2160	3.4200e-003	3.2100e-003	119.2576
Total	0.0445	0.0335	0.4343	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		118.2160	118.2160	3.4200e-003	3.2100e-003	119.2576

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					0.2386	0.0000	0.2386	0.0258	0.0000	0.0258			0.0000			0.0000
Off-Road	0.3079	8.6185	5.8579	9.7300e-003		0.2405	0.2405		0.2405	0.2405	0.0000	942.5179	942.5179	0.3048		950.1386
Total	0.3079	8.6185	5.8579	9.7300e-003	0.2386	0.2405	0.4791	0.0258	0.2405	0.2663	0.0000	942.5179	942.5179	0.3048		950.1386

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Mobilization - 2022

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	0.0445	0.0335	0.4343	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		118.2160	118.2160	3.4200e-003	3.2100e-003	119.2576
Total	0.0445	0.0335	0.4343	1.1600e-003	0.1341	8.6000e-004	0.1350	0.0356	7.9000e-004	0.0364		118.2160	118.2160	3.4200e-003	3.2100e-003	119.2576

3.4 Grading & Undergrounding of Utilities - 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					5.3130	0.0000	5.3130	2.5687	0.0000	2.5687			0.0000			0.0000
Off-Road	0.9335	10.1789	5.5516	0.0141		0.4201	0.4201		0.3865	0.3865		1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.9335	10.1789	5.5516	0.0141	5.3130	0.4201	5.7331	2.5687	0.3865	2.9552		1,364.7713	1,364.7713	0.4414		1,375.8062

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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	2.4300e-003	0.1635	0.0424	7.0000e-004	0.0210	9.9000e-004	0.0220	5.7600e-003	9.5000e-004	6.7100e-003		77.2005	77.2005	4.2400e-003	0.0123	80.9599
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	0.0826	0.0592	0.7994	2.2500e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		230.2144	230.2144	6.1400e-003	5.9200e-003	232.1309
Total	0.0850	0.2227	0.8418	2.9500e-003	0.2893	2.6100e-003	0.2919	0.0769	2.4400e-003	0.0793		307.4149	307.4149	0.0104	0.0182	313.0908

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					2.3908	0.0000	2.3908	1.1559	0.0000	1.1559			0.0000			0.0000
Off-Road	0.4059	12.2633	8.0841	0.0141		0.3106	0.3106		0.3106	0.3106	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062
Total	0.4059	12.2633	8.0841	0.0141	2.3908	0.3106	2.7014	1.1559	0.3106	1.4665	0.0000	1,364.7713	1,364.7713	0.4414		1,375.8062

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading & Undergrounding of Utilities - 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	2.4300e-003	0.1635	0.0424	7.0000e-004	0.0210	9.9000e-004	0.0220	5.7600e-003	9.5000e-004	6.7100e-003		77.2005	77.2005	4.2400e-003	0.0123	80.9599
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	0.0826	0.0592	0.7994	2.2500e-003	0.2683	1.6200e-003	0.2699	0.0711	1.4900e-003	0.0726		230.2144	230.2144	6.1400e-003	5.9200e-003	232.1309
Total	0.0850	0.2227	0.8418	2.9500e-003	0.2893	2.6100e-003	0.2919	0.0769	2.4400e-003	0.0793		307.4149	307.4149	0.0104	0.0182	313.0908

3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes - 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	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946		1,104.6089	1,104.6089	0.3573		1,113.5402

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	4.4500e-003	0.1608	0.0614	7.5000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.2481	80.2481	2.6700e-003	0.0116	83.7564
Worker	0.1376	0.0986	1.3323	3.7500e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		383.6907	383.6907	0.0102	9.8600e-003	386.8849
Total	0.1421	0.2594	1.3937	4.5000e-003	0.4727	3.4800e-003	0.4762	0.1260	3.2200e-003	0.1292		463.9388	463.9388	0.0129	0.0214	470.6413

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.6089	1,104.6089	0.3573		1,113.5402

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	4.4500e-003	0.1608	0.0614	7.5000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.4000e-004	8.1200e-003		80.2481	80.2481	2.6700e-003	0.0116	83.7564
Worker	0.1376	0.0986	1.3323	3.7500e-003	0.4471	2.7000e-003	0.4498	0.1186	2.4800e-003	0.1211		383.6907	383.6907	0.0102	9.8600e-003	386.8849
Total	0.1421	0.2594	1.3937	4.5000e-003	0.4727	3.4800e-003	0.4762	0.1260	3.2200e-003	0.1292		463.9388	463.9388	0.0129	0.0214	470.6413

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598		1,104.9834	1,104.9834	0.3574		1,113.9177

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	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	4.3000e-003	0.1611	0.0601	7.3000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.5000e-004	8.1300e-003		79.0457	79.0457	2.6800e-003	0.0114	82.5061
Worker	0.1287	0.0881	1.2412	3.6400e-003	0.4471	2.5900e-003	0.4497	0.1186	2.3800e-003	0.1210		375.8160	375.8160	9.2600e-003	9.1700e-003	378.7793
Total	0.1330	0.2492	1.3013	4.3700e-003	0.4727	3.3700e-003	0.4761	0.1260	3.1300e-003	0.1291		454.8617	454.8617	0.0119	0.0206	461.2854

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	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177
Total	0.4704	10.7018	7.9624	0.0114		0.3855	0.3855		0.3855	0.3855	0.0000	1,104.9834	1,104.9834	0.3574		1,113.9177

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**3.5 Substructure, Superstructure Shell, Interior Fit-out, & Finishes
- 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	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	4.3000e-003	0.1611	0.0601	7.3000e-004	0.0256	7.8000e-004	0.0264	7.3800e-003	7.5000e-004	8.1300e-003		79.0457	79.0457	2.6800e-003	0.0114	82.5061
Worker	0.1287	0.0881	1.2412	3.6400e-003	0.4471	2.5900e-003	0.4497	0.1186	2.3800e-003	0.1210		375.8160	375.8160	9.2600e-003	9.1700e-003	378.7793
Total	0.1330	0.2492	1.3013	4.3700e-003	0.4727	3.3700e-003	0.4761	0.1260	3.1300e-003	0.1291		454.8617	454.8617	0.0119	0.0206	461.2854

3.6 Paving & Off-site Work - 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	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.6096	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269		1,036.2393	1,036.2393	0.3019		1,043.7858

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving & Off-site Work - 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	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	0.1416	0.0969	1.3654	4.0100e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		413.3975	413.3975	0.0102	0.0101	416.6572
Total	0.1416	0.0969	1.3654	4.0100e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		413.3975	413.3975	0.0102	0.0101	416.6572

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	0.3954	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858
Paving	0.0192					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4146	8.3730	6.9028	0.0113		0.3043	0.3043		0.3043	0.3043	0.0000	1,036.2393	1,036.2393	0.3019		1,043.7858

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Paving & Off-site Work - 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	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	0.1416	0.0969	1.3654	4.0100e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		413.3975	413.3975	0.0102	0.0101	416.6572
Total	0.1416	0.0969	1.3654	4.0100e-003	0.4918	2.8500e-003	0.4947	0.1304	2.6200e-003	0.1331		413.3975	413.3975	0.0102	0.0101	416.6572

3.7 Architectural Coating, Site Works, & Landscaping - 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					
Archit. Coating	4.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	4.2114	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating, Site Works, & Landscaping - 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	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	6.4300e-003	4.4000e-003	0.0621	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.7908	18.7908	4.6000e-004	4.6000e-004	18.9390
Total	6.4300e-003	4.4000e-003	0.0621	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.7908	18.7908	4.6000e-004	4.6000e-004	18.9390

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	4.0306					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1139	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443
Total	4.1445	2.3524	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0159		281.8443

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 Architectural Coating, Site Works, & Landscaping - 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	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	6.4300e-003	4.4000e-003	0.0621	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.7908	18.7908	4.6000e-004	4.6000e-004	18.9390
Total	6.4300e-003	4.4000e-003	0.0621	1.8000e-004	0.0224	1.3000e-004	0.0225	5.9300e-003	1.2000e-004	6.0500e-003		18.7908	18.7908	4.6000e-004	4.6000e-004	18.9390

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0000	0.0000	0.0000	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
Government Office Building	0.00	0.00	0.00		
Parking Lot	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
Government Office Building	16.60	8.40	6.90	33.00	62.00	5.00	50	34	16
Parking Lot	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
Government Office Building	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352
Parking Lot	0.542464	0.063735	0.188241	0.126899	0.023249	0.006239	0.010717	0.008079	0.000923	0.000604	0.024795	0.000702	0.003352

5.0 Energy Detail

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Percent of Electricity Use Generated with Renewable Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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					
Natural Gas Mitigated	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
Natural Gas Unmitigated	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
Government Office Building	360.991	3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219
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
Total		3.8900e-003	0.0354	0.0297	2.1000e-004		2.6900e-003	2.6900e-003		2.6900e-003	2.6900e-003		42.4696	42.4696	8.1000e-004	7.8000e-004	42.7219

Mitigated

	Natural Gas 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					
Government Office Building	0.326258	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113
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
Total		3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003		38.3833	38.3833	7.4000e-004	7.0000e-004	38.6113

6.0 Area Detail

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Unmitigated	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.6100e-003	7.6100e-003	2.0000e-005	8.1100e-003
Total	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005			7.6100e-003	7.6100e-003	2.0000e-005	8.1100e-003

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule 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	0.0331					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2562					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	3.3000e-004	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003
Total	0.2896	3.0000e-005	3.5500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		7.6100e-003	7.6100e-003	2.0000e-005		8.1100e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Fire Station No. 9 - Los Angeles-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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
Emergency Generator	1	0.13	50	350	0.73	Diesel

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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10.1 Stationary Sources

Unmitigated/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
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (300 - 600 HP)	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318
Total	0.0747	0.2087	0.1904	3.6000e-004		0.0110	0.0110		0.0110	0.0110		38.1979	38.1979	5.3600e-003		38.3318

11.0 Vegetation