

# Appendix C

---

Air Quality, Energy, and Greenhouse Gas Emissions

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**Fire Station No. 9 Replacement Project- Option A**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.13	4,080.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Conservatively modeled modular structure as permanent SFR

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Per City-provided information

Demolition -

Grading - CY export per City information

Vehicle Trips - No net increase in trips within city

Woodstoves - No woodstoves/fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Water And Wastewater - 20% reduction indoor water use per 2016 CalGREEN

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	24.00
tblConstructionPhase	NumDays	1.00	8.00
tblConstructionPhase	PhaseEndDate	3/18/2021	12/12/2020
tblConstructionPhase	PhaseEndDate	10/29/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	10/30/2020	11/10/2020
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00

## Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	4,080.00
tblLandUse	LotAcreage	0.32	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	65,154.03	52,123.22
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2020	0.0177	0.1654	0.1578	3.3000e-004	9.7900e-003	7.9300e-003	0.0177	1.8800e-003	7.7000e-003	9.5800e-003	0.0000	29.4937	29.4937	3.6700e-003	0.0000	29.5855
<b>Maximum</b>	<b>0.0177</b>	<b>0.1654</b>	<b>0.1578</b>	<b>3.3000e-004</b>	<b>9.7900e-003</b>	<b>7.9300e-003</b>	<b>0.0177</b>	<b>1.8800e-003</b>	<b>7.7000e-003</b>	<b>9.5800e-003</b>	<b>0.0000</b>	<b>29.4937</b>	<b>29.4937</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>29.5855</b>

**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					
2020	0.0177	0.0924	0.1578	3.3000e-004	6.5000e-003	7.9300e-003	0.0144	1.4500e-003	7.7000e-003	9.1500e-003	0.0000	29.4937	29.4937	3.6700e-003	0.0000	29.5855
<b>Maximum</b>	<b>0.0177</b>	<b>0.0924</b>	<b>0.1578</b>	<b>3.3000e-004</b>	<b>6.5000e-003</b>	<b>7.9300e-003</b>	<b>0.0144</b>	<b>1.4500e-003</b>	<b>7.7000e-003</b>	<b>9.1500e-003</b>	<b>0.0000</b>	<b>29.4937</b>	<b>29.4937</b>	<b>3.6700e-003</b>	<b>0.0000</b>	<b>29.5855</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	44.16	0.00	0.00	33.61	0.00	18.52	22.87	0.00	4.49	0.00	0.00	0.00	0.00	0.00	0.00

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.7837	2.7837	8.0000e-005	4.0000e-005	2.7971
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0165	0.1822	0.1987	1.7100e-003	4.0000e-005	0.2538
<b>Total</b>	<b>0.0165</b>	<b>1.3900e-003</b>	<b>0.0109</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.2662</b>	<b>2.9827</b>	<b>3.2489</b>	<b>0.0166</b>	<b>8.0000e-005</b>	<b>3.6867</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**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	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.7837	2.7837	8.0000e-005	4.0000e-005	2.7971
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0165	0.1822	0.1987	1.7100e-003	4.0000e-005	0.2538
<b>Total</b>	<b>0.0165</b>	<b>1.3900e-003</b>	<b>0.0109</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.2662</b>	<b>2.9827</b>	<b>3.2489</b>	<b>0.0166</b>	<b>8.0000e-005</b>	<b>3.6867</b>

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

**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	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	
3	Building Construction	Building Construction	11/10/2020	12/12/2020	5	24	

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**Acres of Grading (Site Preparation Phase): 5**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	4.00	231	0.29

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0508	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0508</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>2.7300e-003</b>	<b>2.9100e-003</b>	<b>5.6400e-003</b>	<b>4.1000e-004</b>	<b>2.8300e-003</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6420	0.6420	2.0000e-005	0.0000	0.6424
<b>Total</b>	<b>3.9000e-004</b>	<b>3.7300e-003</b>	<b>3.1600e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.5853</b>	<b>1.5853</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.5874</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0334	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0334</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>2.9100e-003</b>	<b>3.9700e-003</b>	<b>1.6000e-004</b>	<b>2.8300e-003</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6420	0.6420	2.0000e-005	0.0000	0.6424
<b>Total</b>	<b>3.9000e-004</b>	<b>3.7300e-003</b>	<b>3.1600e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.5853</b>	<b>1.5853</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.5874</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.6500e-003	0.0000	2.6500e-003	2.9000e-004	0.0000	2.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0236	0.0279	5.0000e-005		1.2500e-003	1.2500e-003		1.2200e-003	1.2200e-003	0.0000	4.0756	4.0756	7.1000e-004	0.0000	4.0935
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0236</b>	<b>0.0279</b>	<b>5.0000e-005</b>	<b>2.6500e-003</b>	<b>1.2500e-003</b>	<b>3.9000e-003</b>	<b>2.9000e-004</b>	<b>1.2200e-003</b>	<b>1.5100e-003</b>	<b>0.0000</b>	<b>4.0756</b>	<b>4.0756</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>4.0935</b>

**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	3.4000e-004	0.0124	2.4600e-003	3.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.1000e-004	4.0000e-005	2.4000e-004	0.0000	3.3204	3.3204	2.3000e-004	0.0000	3.3261
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	1.4000e-004	1.1000e-004	1.2100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3161	0.3161	1.0000e-005	0.0000	0.3163
<b>Total</b>	<b>4.8000e-004</b>	<b>0.0125</b>	<b>3.6700e-003</b>	<b>3.0000e-005</b>	<b>1.1100e-003</b>	<b>4.0000e-005</b>	<b>1.1500e-003</b>	<b>3.0000e-004</b>	<b>4.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.6365</b>	<b>3.6365</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>3.6424</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0300e-003	0.0000	1.0300e-003	1.1000e-004	0.0000	1.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	9.6500e-003	0.0279	5.0000e-005		1.2500e-003	1.2500e-003		1.2200e-003	1.2200e-003	0.0000	4.0756	4.0756	7.1000e-004	0.0000	4.0935
<b>Total</b>	<b>2.5800e-003</b>	<b>9.6500e-003</b>	<b>0.0279</b>	<b>5.0000e-005</b>	<b>1.0300e-003</b>	<b>1.2500e-003</b>	<b>2.2800e-003</b>	<b>1.1000e-004</b>	<b>1.2200e-003</b>	<b>1.3300e-003</b>	<b>0.0000</b>	<b>4.0756</b>	<b>4.0756</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>4.0935</b>

**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	3.4000e-004	0.0124	2.4600e-003	3.0000e-005	7.6000e-004	4.0000e-005	8.0000e-004	2.1000e-004	4.0000e-005	2.4000e-004	0.0000	3.3204	3.3204	2.3000e-004	0.0000	3.3261
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	1.4000e-004	1.1000e-004	1.2100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3161	0.3161	1.0000e-005	0.0000	0.3163
<b>Total</b>	<b>4.8000e-004</b>	<b>0.0125</b>	<b>3.6700e-003</b>	<b>3.0000e-005</b>	<b>1.1100e-003</b>	<b>4.0000e-005</b>	<b>1.1500e-003</b>	<b>3.0000e-004</b>	<b>4.0000e-005</b>	<b>3.4000e-004</b>	<b>0.0000</b>	<b>3.6365</b>	<b>3.6365</b>	<b>2.4000e-004</b>	<b>0.0000</b>	<b>3.6424</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2020**

**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	7.5100e-003	0.0741	0.0572	1.1000e-004		3.6900e-003	3.6900e-003		3.5800e-003	3.5800e-003	0.0000	9.8240	9.8240	1.3700e-003	0.0000	9.8582
<b>Total</b>	<b>7.5100e-003</b>	<b>0.0741</b>	<b>0.0572</b>	<b>1.1000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.5800e-003</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>9.8240</b>	<b>9.8240</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>9.8582</b>

**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	9.6000e-004	7.4000e-004	8.1800e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1334	2.1334	6.0000e-005	0.0000	2.1349
<b>Total</b>	<b>9.6000e-004</b>	<b>7.4000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.1334</b>	<b>2.1334</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1349</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**3.4 Building Construction - 2020**

**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	7.5100e-003	0.0324	0.0572	1.1000e-004		3.6900e-003	3.6900e-003		3.5800e-003	3.5800e-003	0.0000	9.8240	9.8240	1.3700e-003	0.0000	9.8582
<b>Total</b>	<b>7.5100e-003</b>	<b>0.0324</b>	<b>0.0572</b>	<b>1.1000e-004</b>		<b>3.6900e-003</b>	<b>3.6900e-003</b>		<b>3.5800e-003</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>9.8240</b>	<b>9.8240</b>	<b>1.3700e-003</b>	<b>0.0000</b>	<b>9.8582</b>

**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	9.6000e-004	7.4000e-004	8.1800e-003	2.0000e-005	2.3700e-003	2.0000e-005	2.3900e-003	6.3000e-004	2.0000e-005	6.5000e-004	0.0000	2.1334	2.1334	6.0000e-005	0.0000	2.1349
<b>Total</b>	<b>9.6000e-004</b>	<b>7.4000e-004</b>	<b>8.1800e-003</b>	<b>2.0000e-005</b>	<b>2.3700e-003</b>	<b>2.0000e-005</b>	<b>2.3900e-003</b>	<b>6.3000e-004</b>	<b>2.0000e-005</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>2.1334</b>	<b>2.1334</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.1349</b>

**4.0 Operational Detail - Mobile**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.3175	1.3175	6.0000e-005	1.0000e-005	1.3223
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.3175	1.3175	6.0000e-005	1.0000e-005	1.3223
NaturalGas Mitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
NaturalGas Unmitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**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					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>

**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					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8208.29	1.3175	6.0000e-005	1.0000e-005	1.3223
<b>Total</b>		<b>1.3175</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3223</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8208.29	1.3175	6.0000e-005	1.0000e-005	1.3223
<b>Total</b>		<b>1.3175</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3223</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - 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	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Unmitigated	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**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	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0163</b>	<b>1.2000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0173</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**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	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0163</b>	<b>1.2000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0173</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.1987	1.7100e-003	4.0000e-005	0.2538
Unmitigated	0.1987	1.7100e-003	4.0000e-005	0.2538

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.0521232 / 0.0410754	0.1987	1.7100e-003	4.0000e-005	0.2538
<b>Total</b>		<b>0.1987</b>	<b>1.7100e-003</b>	<b>4.0000e-005</b>	<b>0.2538</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.0521232 / 0.0410754	0.1987	1.7100e-003	4.0000e-005	0.2538
<b>Total</b>		<b>0.1987</b>	<b>1.7100e-003</b>	<b>4.0000e-005</b>	<b>0.2538</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.6186
Unmitigated	0.2497	0.0148	0.0000	0.6186

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**9.0 Operational Offroad**

---

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



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**Fire Station No. 9 Replacement Project- Option A**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.13	4,080.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

Project Characteristics - Adjusted for 2030 RPS

Land Use - Conservatively modeled modular structure as permanent SFR

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Per City-provided information

Demolition -

Grading - CY export per City information

Vehicle Trips - No net increase in trips within city

Woodstoves - No woodstoves/fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Water And Wastewater - 20% reduction indoor water use per 2016 CalGREEN

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	24.00
tblConstructionPhase	NumDays	1.00	8.00
tblConstructionPhase	PhaseEndDate	3/18/2021	12/12/2020
tblConstructionPhase	PhaseEndDate	10/29/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	10/30/2020	11/10/2020
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00

## Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	4,080.00
tblLandUse	LotAcreage	0.32	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	65,154.03	52,123.22
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.2359	10.8855	12.2196	0.0225	0.9445	0.5852	1.3203	0.1480	0.5700	0.7032	0.0000	2,174.7210	2,174.7210	0.2852	0.0000	2,181.8518
<b>Maximum</b>	<b>1.2359</b>	<b>10.8855</b>	<b>12.2196</b>	<b>0.0225</b>	<b>0.9445</b>	<b>0.5852</b>	<b>1.3203</b>	<b>0.1480</b>	<b>0.5700</b>	<b>0.7032</b>	<b>0.0000</b>	<b>2,174.7210</b>	<b>2,174.7210</b>	<b>0.2852</b>	<b>0.0000</b>	<b>2,181.8518</b>

**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					
2020	1.2359	7.4069	12.2196	0.0225	0.5401	0.5852	0.9872	0.1043	0.5700	0.6528	0.0000	2,174.7210	2,174.7210	0.2852	0.0000	2,181.8518
<b>Maximum</b>	<b>1.2359</b>	<b>7.4069</b>	<b>12.2196</b>	<b>0.0225</b>	<b>0.5401</b>	<b>0.5852</b>	<b>0.9872</b>	<b>0.1043</b>	<b>0.5700</b>	<b>0.6528</b>	<b>0.0000</b>	<b>2,174.7210</b>	<b>2,174.7210</b>	<b>0.2852</b>	<b>0.0000</b>	<b>2,181.8518</b>

## Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	31.96	0.00	0.00	42.81	0.00	25.23	29.51	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
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
<b>Total</b>	<b>0.0911</b>	<b>7.8900e-003</b>	<b>0.0856</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>9.0042</b>	<b>9.0042</b>	<b>3.1000e-004</b>	<b>1.6000e-004</b>	<b>9.0604</b>

**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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
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
<b>Total</b>	<b>0.0911</b>	<b>7.8900e-003</b>	<b>0.0856</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>9.0042</b>	<b>9.0042</b>	<b>3.1000e-004</b>	<b>1.6000e-004</b>	<b>9.0604</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	
3	Building Construction	Building Construction	11/10/2020	12/12/2020	5	24	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	4.00	231	0.29

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**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					0.5461	0.0000	0.5461	0.0827	0.0000	0.0827			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669		1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.5461</b>	<b>0.5819</b>	<b>1.1280</b>	<b>0.0827</b>	<b>0.5669</b>	<b>0.6496</b>		<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

**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	0.0190	0.6804	0.1354	1.9400e-003	0.0437	2.1900e-003	0.0459	0.0120	2.1000e-003	0.0141		209.5823	209.5823	0.0141		209.9339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0395	0.5315	1.4900e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		148.7743	148.7743	4.2800e-003		148.8812
<b>Total</b>	<b>0.0778</b>	<b>0.7199</b>	<b>0.6668</b>	<b>3.4300e-003</b>	<b>0.1890</b>	<b>3.2900e-003</b>	<b>0.1923</b>	<b>0.0505</b>	<b>3.1200e-003</b>	<b>0.0536</b>		<b>358.3566</b>	<b>358.3566</b>	<b>0.0183</b>		<b>358.8151</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**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					0.2130	0.0000	0.2130	0.0323	0.0000	0.0323			0.0000			0.0000
Off-Road	1.1581	6.6870	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669	0.0000	1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>6.6870</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.2130</b>	<b>0.5819</b>	<b>0.7949</b>	<b>0.0323</b>	<b>0.5669</b>	<b>0.5991</b>	<b>0.0000</b>	<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

**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	0.0190	0.6804	0.1354	1.9400e-003	0.0437	2.1900e-003	0.0459	0.0120	2.1000e-003	0.0141		209.5823	209.5823	0.0141		209.9339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0588	0.0395	0.5315	1.4900e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		148.7743	148.7743	4.2800e-003		148.8812
<b>Total</b>	<b>0.0778</b>	<b>0.7199</b>	<b>0.6668</b>	<b>3.4300e-003</b>	<b>0.1890</b>	<b>3.2900e-003</b>	<b>0.1923</b>	<b>0.0505</b>	<b>3.1200e-003</b>	<b>0.0536</b>		<b>358.3566</b>	<b>358.3566</b>	<b>0.0183</b>		<b>358.8151</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**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					0.6628	0.0000	0.6628	0.0716	0.0000	0.0716			0.0000			0.0000
Off-Road	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038		1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.6628</b>	<b>0.3131</b>	<b>0.9759</b>	<b>0.0716</b>	<b>0.3038</b>	<b>0.3753</b>		<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

**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	0.0836	2.9936	0.5956	8.5300e-003	0.1922	9.6500e-003	0.2019	0.0527	9.2300e-003	0.0619		922.1621	922.1621	0.0619		923.7092
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.1198</b>	<b>3.0179</b>	<b>0.9227</b>	<b>9.4500e-003</b>	<b>0.2816</b>	<b>0.0103</b>	<b>0.2920</b>	<b>0.0764</b>	<b>9.8500e-003</b>	<b>0.0863</b>		<b>1,013.7155</b>	<b>1,013.7155</b>	<b>0.0645</b>		<b>1,015.3284</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**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					0.2585	0.0000	0.2585	0.0279	0.0000	0.0279			0.0000			0.0000
Off-Road	0.6440	2.4126	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038	0.0000	1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>2.4126</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.2585</b>	<b>0.3131</b>	<b>0.5716</b>	<b>0.0279</b>	<b>0.3038</b>	<b>0.3317</b>	<b>0.0000</b>	<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

**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	0.0836	2.9936	0.5956	8.5300e-003	0.1922	9.6500e-003	0.2019	0.0527	9.2300e-003	0.0619		922.1621	922.1621	0.0619		923.7092
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.1198</b>	<b>3.0179</b>	<b>0.9227</b>	<b>9.4500e-003</b>	<b>0.2816</b>	<b>0.0103</b>	<b>0.2920</b>	<b>0.0764</b>	<b>9.8500e-003</b>	<b>0.0863</b>		<b>1,013.7155</b>	<b>1,013.7155</b>	<b>0.0645</b>		<b>1,015.3284</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.4 Building Construction - 2020**

**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	0.6258	6.1744	4.7632	9.4600e-003		0.3074	0.3074		0.2985	0.2985		902.4294	902.4294	0.1254		905.5655
<b>Total</b>	<b>0.6258</b>	<b>6.1744</b>	<b>4.7632</b>	<b>9.4600e-003</b>		<b>0.3074</b>	<b>0.3074</b>		<b>0.2985</b>	<b>0.2985</b>		<b>902.4294</b>	<b>902.4294</b>	<b>0.1254</b>		<b>905.5655</b>

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**3.4 Building Construction - 2020**

**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	0.6258	2.6958	4.7632	9.4600e-003		0.3074	0.3074		0.2985	0.2985	0.0000	902.4294	902.4294	0.1254		905.5655
<b>Total</b>	<b>0.6258</b>	<b>2.6958</b>	<b>4.7632</b>	<b>9.4600e-003</b>		<b>0.3074</b>	<b>0.3074</b>		<b>0.2985</b>	<b>0.2985</b>	<b>0.0000</b>	<b>902.4294</b>	<b>902.4294</b>	<b>0.1254</b>		<b>905.5655</b>

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0814	0.0547	0.7359	2.0700e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		205.9951	205.9951	5.9200e-003		206.1432
<b>Total</b>	<b>0.0814</b>	<b>0.0547</b>	<b>0.7359</b>	<b>2.0700e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>205.9951</b>	<b>205.9951</b>	<b>5.9200e-003</b>		<b>206.1432</b>

**4.0 Operational Detail - Mobile**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
NaturalGas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**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					
Single Family Housing	75.2728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

**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					
Single Family Housing	0.0752728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - 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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Unmitigated	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**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	6.9900e-003					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Consumer Products	0.0808					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004			0.1522
<b>Total</b>	<b>0.0903</b>	<b>9.5000e-004</b>	<b>0.0827</b>	<b>0.0000</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>1.4000e-004</b>	<b>0.0000</b>		<b>0.1522</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**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	6.9900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.0903</b>	<b>9.5000e-004</b>	<b>0.0827</b>	<b>0.0000</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.1522</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Summer

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**Fire Station No. 9 Replacement Project- Option A**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.13	4,080.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

Project Characteristics - Adjusted for 2030 RPS

Land Use - Conservatively modeled modular structure as permanent SFR

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Added excavator per City-provided information

Off-road Equipment - Per City-provided information

Demolition -

Grading - CY export per City information

Vehicle Trips - No net increase in trips within city

Woodstoves - No woodstoves/fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Water And Wastewater - 20% reduction indoor water use per 2016 CalGREEN

Area Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	100.00	24.00
tblConstructionPhase	NumDays	1.00	8.00
tblConstructionPhase	PhaseEndDate	3/18/2021	12/12/2020
tblConstructionPhase	PhaseEndDate	10/29/2020	11/9/2020
tblConstructionPhase	PhaseStartDate	10/30/2020	11/10/2020
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00



## Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	4,080.00
tblLandUse	LotAcreage	0.32	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Building Construction
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblTripsAndVMT	WorkerTripNumber	0.00	18.00
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWater	IndoorWaterUseRate	65,154.03	52,123.22
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**2.0 Emissions Summary**

**2.1 Overall Construction (Maximum Daily Emission)**

**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2020	1.2418	10.8979	12.1770	0.0223	0.9445	0.5852	1.3203	0.1480	0.5700	0.7032	0.0000	2,161.236 4	2,161.236 4	0.2856	0.0000	2,168.375 3
<b>Maximum</b>	<b>1.2418</b>	<b>10.8979</b>	<b>12.1770</b>	<b>0.0223</b>	<b>0.9445</b>	<b>0.5852</b>	<b>1.3203</b>	<b>0.1480</b>	<b>0.5700</b>	<b>0.7032</b>	<b>0.0000</b>	<b>2,161.236 4</b>	<b>2,161.236 4</b>	<b>0.2856</b>	<b>0.0000</b>	<b>2,168.375 3</b>

**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					
2020	1.2418	7.4193	12.1770	0.0223	0.5401	0.5852	0.9872	0.1043	0.5700	0.6528	0.0000	2,161.236 4	2,161.236 4	0.2856	0.0000	2,168.375 3
<b>Maximum</b>	<b>1.2418</b>	<b>7.4193</b>	<b>12.1770</b>	<b>0.0223</b>	<b>0.5401</b>	<b>0.5852</b>	<b>0.9872</b>	<b>0.1043</b>	<b>0.5700</b>	<b>0.6528</b>	<b>0.0000</b>	<b>2,161.236 4</b>	<b>2,161.236 4</b>	<b>0.2856</b>	<b>0.0000</b>	<b>2,168.375 3</b>

## Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	31.92	0.00	0.00	42.81	0.00	25.23	29.51	0.00	7.17	0.00	0.00	0.00	0.00	0.00	0.00

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
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
<b>Total</b>	<b>0.0911</b>	<b>7.8900e-003</b>	<b>0.0856</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>9.0042</b>	<b>9.0042</b>	<b>3.1000e-004</b>	<b>1.6000e-004</b>	<b>9.0604</b>

**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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Energy	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
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
<b>Total</b>	<b>0.0911</b>	<b>7.8900e-003</b>	<b>0.0856</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>1.0200e-003</b>	<b>1.0200e-003</b>	<b>0.0000</b>	<b>9.0042</b>	<b>9.0042</b>	<b>3.1000e-004</b>	<b>1.6000e-004</b>	<b>9.0604</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

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

### 3.0 Construction Detail

#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	
3	Building Construction	Building Construction	11/10/2020	12/12/2020	5	24	

Acres of Grading (Site Preparation Phase): 5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

#### OffRoad Equipment

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Building Construction	Generator Sets	1	8.00	84	0.74
Demolition	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	4.00	231	0.29

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	88.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**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					0.5461	0.0000	0.5461	0.0827	0.0000	0.0827			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669		1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.5461</b>	<b>0.5819</b>	<b>1.1280</b>	<b>0.0827</b>	<b>0.5669</b>	<b>0.6496</b>		<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

**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	0.0195	0.6891	0.1457	1.9000e-003	0.0437	2.2300e-003	0.0459	0.0120	2.1300e-003	0.0141		205.7245	205.7245	0.0147		206.0914
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0642	0.0433	0.4785	1.4000e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		139.1474	139.1474	3.9900e-003		139.2472
<b>Total</b>	<b>0.0837</b>	<b>0.7324</b>	<b>0.6242</b>	<b>3.3000e-003</b>	<b>0.1890</b>	<b>3.3300e-003</b>	<b>0.1923</b>	<b>0.0505</b>	<b>3.1500e-003</b>	<b>0.0537</b>		<b>344.8720</b>	<b>344.8720</b>	<b>0.0187</b>		<b>345.3386</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**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					0.2130	0.0000	0.2130	0.0323	0.0000	0.0323			0.0000			0.0000
Off-Road	1.1581	6.6870	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669	0.0000	1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>6.6870</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.2130</b>	<b>0.5819</b>	<b>0.7949</b>	<b>0.0323</b>	<b>0.5669</b>	<b>0.5991</b>	<b>0.0000</b>	<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

**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	0.0195	0.6891	0.1457	1.9000e-003	0.0437	2.2300e-003	0.0459	0.0120	2.1300e-003	0.0141		205.7245	205.7245	0.0147		206.0914
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0642	0.0433	0.4785	1.4000e-003	0.1453	1.1000e-003	0.1464	0.0385	1.0200e-003	0.0396		139.1474	139.1474	3.9900e-003		139.2472
<b>Total</b>	<b>0.0837</b>	<b>0.7324</b>	<b>0.6242</b>	<b>3.3000e-003</b>	<b>0.1890</b>	<b>3.3300e-003</b>	<b>0.1923</b>	<b>0.0505</b>	<b>3.1500e-003</b>	<b>0.0537</b>		<b>344.8720</b>	<b>344.8720</b>	<b>0.0187</b>		<b>345.3386</b>



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**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					0.6628	0.0000	0.6628	0.0716	0.0000	0.0716			0.0000			0.0000
Off-Road	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038		1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.6628</b>	<b>0.3131</b>	<b>0.9759</b>	<b>0.0716</b>	<b>0.3038</b>	<b>0.3753</b>		<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

**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	0.0860	3.0320	0.6412	8.3700e-003	0.1922	9.8000e-003	0.2020	0.0527	9.3700e-003	0.0621		905.1878	905.1878	0.0646		906.8021
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.1254</b>	<b>3.0586</b>	<b>0.9357</b>	<b>9.2300e-003</b>	<b>0.2816</b>	<b>0.0105</b>	<b>0.2921</b>	<b>0.0764</b>	<b>9.9900e-003</b>	<b>0.0864</b>		<b>990.8170</b>	<b>990.8170</b>	<b>0.0670</b>		<b>992.4926</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**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					0.2585	0.0000	0.2585	0.0279	0.0000	0.0279			0.0000			0.0000
Off-Road	0.6440	2.4126	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038	0.0000	1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>2.4126</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.2585</b>	<b>0.3131</b>	<b>0.5716</b>	<b>0.0279</b>	<b>0.3038</b>	<b>0.3317</b>	<b>0.0000</b>	<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

**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	0.0860	3.0320	0.6412	8.3700e-003	0.1922	9.8000e-003	0.2020	0.0527	9.3700e-003	0.0621		905.1878	905.1878	0.0646		906.8021
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.1254</b>	<b>3.0586</b>	<b>0.9357</b>	<b>9.2300e-003</b>	<b>0.2816</b>	<b>0.0105</b>	<b>0.2921</b>	<b>0.0764</b>	<b>9.9900e-003</b>	<b>0.0864</b>		<b>990.8170</b>	<b>990.8170</b>	<b>0.0670</b>		<b>992.4926</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.4 Building Construction - 2020**

**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	0.6258	6.1744	4.7632	9.4600e-003		0.3074	0.3074		0.2985	0.2985		902.4294	902.4294	0.1254		905.5655
<b>Total</b>	<b>0.6258</b>	<b>6.1744</b>	<b>4.7632</b>	<b>9.4600e-003</b>		<b>0.3074</b>	<b>0.3074</b>		<b>0.2985</b>	<b>0.2985</b>		<b>902.4294</b>	<b>902.4294</b>	<b>0.1254</b>		<b>905.5655</b>

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**3.4 Building Construction - 2020**

**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	0.6258	2.6958	4.7632	9.4600e-003		0.3074	0.3074		0.2985	0.2985	0.0000	902.4294	902.4294	0.1254		905.5655
<b>Total</b>	<b>0.6258</b>	<b>2.6958</b>	<b>4.7632</b>	<b>9.4600e-003</b>		<b>0.3074</b>	<b>0.3074</b>		<b>0.2985</b>	<b>0.2985</b>	<b>0.0000</b>	<b>902.4294</b>	<b>902.4294</b>	<b>0.1254</b>		<b>905.5655</b>

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0599	0.6626	1.9300e-003	0.2012	1.5300e-003	0.2027	0.0534	1.4100e-003	0.0548		192.6657	192.6657	5.5300e-003		192.8038
<b>Total</b>	<b>0.0888</b>	<b>0.0599</b>	<b>0.6626</b>	<b>1.9300e-003</b>	<b>0.2012</b>	<b>1.5300e-003</b>	<b>0.2027</b>	<b>0.0534</b>	<b>1.4100e-003</b>	<b>0.0548</b>		<b>192.6657</b>	<b>192.6657</b>	<b>5.5300e-003</b>		<b>192.8038</b>

**4.0 Operational Detail - Mobile**

---

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
NaturalGas Unmitigated	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**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					
Single Family Housing	75.2728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

**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					
Single Family Housing	0.0752728	8.1000e-004	6.9400e-003	2.9500e-003	4.0000e-005		5.6000e-004	5.6000e-004		5.6000e-004	5.6000e-004		8.8556	8.8556	1.7000e-004	1.6000e-004	8.9083
<b>Total</b>		<b>8.1000e-004</b>	<b>6.9400e-003</b>	<b>2.9500e-003</b>	<b>4.0000e-005</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>5.6000e-004</b>	<b>5.6000e-004</b>		<b>8.8556</b>	<b>8.8556</b>	<b>1.7000e-004</b>	<b>1.6000e-004</b>	<b>8.9083</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - 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	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522
Unmitigated	0.0903	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004	0.0000	0.1486	0.1486	1.4000e-004	0.0000	0.1522



Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**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	6.9900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.0903</b>	<b>9.5000e-004</b>	<b>0.0827</b>	<b>0.0000</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.1522</b>

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**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	6.9900e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0808					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.5100e-003	9.5000e-004	0.0827	0.0000		4.6000e-004	4.6000e-004		4.6000e-004	4.6000e-004		0.1486	0.1486	1.4000e-004		0.1522
<b>Total</b>	<b>0.0903</b>	<b>9.5000e-004</b>	<b>0.0827</b>	<b>0.0000</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>		<b>4.6000e-004</b>	<b>4.6000e-004</b>	<b>0.0000</b>	<b>0.1486</b>	<b>0.1486</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.1522</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Stationary Equipment**

Fire Station No. 9 Replacement Project- Option A - South Coast AQMD Air District, Winter

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**Fire Station No. 9 Replacement Project- Option B**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	0.00	Dwelling Unit	0.13	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Vacant Lot

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Per City-provided info

Off-road Equipment - Per City-provided information

Trips and VMT -

Demolition -

Grading - CY export per City information

Vehicle Trips - No trips vacant lot

Woodstoves -

Energy Use -

Water And Wastewater - Site will not be watered

Solid Waste - vacant site, no waste

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Operational Off-Road Equipment -

## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	8.00
tblLandUse	LandUseSquareFeet	234.00	0.00
tblLandUse	LotAcreage	0.04	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	0.01	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	154,892.58	0.00

## 2.0 Emissions Summary

---







Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**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	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	

**Acres of Grading (Site Preparation Phase): 4**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0508	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0508</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>2.7300e-003</b>	<b>2.9100e-003</b>	<b>5.6400e-003</b>	<b>4.1000e-004</b>	<b>2.8300e-003</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.8900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4938	0.4938	1.0000e-005	0.0000	0.4942
<b>Total</b>	<b>3.2000e-004</b>	<b>3.6800e-003</b>	<b>2.5900e-003</b>	<b>2.0000e-005</b>	<b>7.6000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>2.1000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.4371</b>	<b>1.4371</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.4391</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0508	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0508</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>2.9100e-003</b>	<b>3.9700e-003</b>	<b>1.6000e-004</b>	<b>2.8300e-003</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.2000e-004	1.7000e-004	1.8900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.4938	0.4938	1.0000e-005	0.0000	0.4942
<b>Total</b>	<b>3.2000e-004</b>	<b>3.6800e-003</b>	<b>2.5900e-003</b>	<b>2.0000e-005</b>	<b>7.6000e-004</b>	<b>1.0000e-005</b>	<b>7.8000e-004</b>	<b>2.1000e-004</b>	<b>1.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.4371</b>	<b>1.4371</b>	<b>8.0000e-005</b>	<b>0.0000</b>	<b>1.4391</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0236	0.0279	5.0000e-005		1.2500e-003	1.2500e-003		1.2200e-003	1.2200e-003	0.0000	4.0756	4.0756	7.1000e-004	0.0000	4.0935
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0236</b>	<b>0.0279</b>	<b>5.0000e-005</b>	<b>2.1200e-003</b>	<b>1.2500e-003</b>	<b>3.3700e-003</b>	<b>2.3000e-004</b>	<b>1.2200e-003</b>	<b>1.4500e-003</b>	<b>0.0000</b>	<b>4.0756</b>	<b>4.0756</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>4.0935</b>

**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	1.4000e-004	1.1000e-004	1.2100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3161	0.3161	1.0000e-005	0.0000	0.3163
<b>Total</b>	<b>1.4000e-004</b>	<b>1.1000e-004</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3161</b>	<b>0.3161</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3163</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**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					8.3000e-004	0.0000	8.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.5800e-003	0.0236	0.0279	5.0000e-005		1.2500e-003	1.2500e-003		1.2200e-003	1.2200e-003	0.0000	4.0756	4.0756	7.1000e-004	0.0000	4.0935
<b>Total</b>	<b>2.5800e-003</b>	<b>0.0236</b>	<b>0.0279</b>	<b>5.0000e-005</b>	<b>8.3000e-004</b>	<b>1.2500e-003</b>	<b>2.0800e-003</b>	<b>9.0000e-005</b>	<b>1.2200e-003</b>	<b>1.3100e-003</b>	<b>0.0000</b>	<b>4.0756</b>	<b>4.0756</b>	<b>7.1000e-004</b>	<b>0.0000</b>	<b>4.0935</b>

**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	1.4000e-004	1.1000e-004	1.2100e-003	0.0000	3.5000e-004	0.0000	3.5000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3161	0.3161	1.0000e-005	0.0000	0.3163
<b>Total</b>	<b>1.4000e-004</b>	<b>1.1000e-004</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>0.0000</b>	<b>3.5000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>0.3161</b>	<b>0.3161</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3163</b>

**4.0 Operational Detail - Mobile**

---

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925





Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**6.2 Area by SubCategory**

**Unmitigated**

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

**Mitigated**

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

**7.0 Water Detail**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**7.1 Mitigation Measures Water**

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

---

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**Fire Station No. 9 Replacement Project- Option B**  
**South Coast AQMD Air District, Summer**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	0.00	Dwelling Unit	0.13	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

Project Characteristics - Adjusted for 2030 RPS

Land Use - Vacant Lot

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Per City-provided info

Off-road Equipment - Per City-provided information

Trips and VMT -

Demolition -

Grading - CY export per City information

Vehicle Trips - No trips vacant lot

Woodstoves -

Energy Use -

Water And Wastewater - Site will not be watered

Solid Waste - vacant site, no waste

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Operational Off-Road Equipment -

## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	8.00
tblLandUse	LandUseSquareFeet	234.00	0.00
tblLandUse	LotAcreage	0.04	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	0.01	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	154,892.58	0.00

## 2.0 Emissions Summary

---







## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**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	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	

**Acres of Grading (Site Preparation Phase): 4****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74

**Trips and VMT**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**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					0.5461	0.0000	0.5461	0.0827	0.0000	0.0827			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669		1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.5461</b>	<b>0.5819</b>	<b>1.1280</b>	<b>0.0827</b>	<b>0.5669</b>	<b>0.6496</b>		<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**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	0.0190	0.6804	0.1354	1.9400e-003	0.0437	2.1900e-003	0.0459	0.0120	2.1000e-003	0.0141		209.5823	209.5823	0.0141		209.9339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003		114.5240
<b>Total</b>	<b>0.0642</b>	<b>0.7108</b>	<b>0.5442</b>	<b>3.0900e-003</b>	<b>0.1555</b>	<b>3.0400e-003</b>	<b>0.1585</b>	<b>0.0416</b>	<b>2.8800e-003</b>	<b>0.0445</b>		<b>324.0241</b>	<b>324.0241</b>	<b>0.0174</b>		<b>324.4579</b>

**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					0.2130	0.0000	0.2130	0.0323	0.0000	0.0323			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669	0.0000	1,816.3644	1,816.3644	0.2669		1,823.0367
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.2130</b>	<b>0.5819</b>	<b>0.7949</b>	<b>0.0323</b>	<b>0.5669</b>	<b>0.5991</b>	<b>0.0000</b>	<b>1,816.3644</b>	<b>1,816.3644</b>	<b>0.2669</b>		<b>1,823.0367</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**3.2 Demolition - 2020**

**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	0.0190	0.6804	0.1354	1.9400e-003	0.0437	2.1900e-003	0.0459	0.0120	2.1000e-003	0.0141		209.5823	209.5823	0.0141		209.9339
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0452	0.0304	0.4088	1.1500e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		114.4418	114.4418	3.2900e-003		114.5240
<b>Total</b>	<b>0.0642</b>	<b>0.7108</b>	<b>0.5442</b>	<b>3.0900e-003</b>	<b>0.1555</b>	<b>3.0400e-003</b>	<b>0.1585</b>	<b>0.0416</b>	<b>2.8800e-003</b>	<b>0.0445</b>		<b>324.0241</b>	<b>324.0241</b>	<b>0.0174</b>		<b>324.4579</b>

**3.3 Site Preparation - 2020**

**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	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038		1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.5303</b>	<b>0.3131</b>	<b>0.8434</b>	<b>0.0573</b>	<b>0.3038</b>	<b>0.3610</b>		<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.0362</b>	<b>0.0243</b>	<b>0.3271</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>91.5534</b>	<b>91.5534</b>	<b>2.6300e-003</b>		<b>91.6192</b>

**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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038	0.0000	1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.2068</b>	<b>0.3131</b>	<b>0.5199</b>	<b>0.0223</b>	<b>0.3038</b>	<b>0.3261</b>	<b>0.0000</b>	<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**3.3 Site Preparation - 2020**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0362	0.0243	0.3271	9.2000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		91.5534	91.5534	2.6300e-003		91.6192
<b>Total</b>	<b>0.0362</b>	<b>0.0243</b>	<b>0.3271</b>	<b>9.2000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>91.5534</b>	<b>91.5534</b>	<b>2.6300e-003</b>		<b>91.6192</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**



Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

	ROG	NOx	CO	SO2	Fugitive 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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

5.1 Mitigation Measures Energy

6.0 Area Detail

6.1 Mitigation Measures Area

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**7.0 Water Detail**

## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Summer

---

**7.1 Mitigation Measures Water****8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**Fire Station No. 9 Replacement Project- Option B**  
**South Coast AQMD Air District, Winter**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	0.00	Dwelling Unit	0.13	0.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	353.87	<b>CH4 Intensity (lb/MWhr)</b>	0.015	<b>N2O Intensity (lb/MWhr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

Project Characteristics - Adjusted for 2030 RPS

Land Use - Vacant Lot

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Per City-provided info

Off-road Equipment - Per City-provided information

Trips and VMT -

Demolition -

Grading - CY export per City information

Vehicle Trips - No trips vacant lot

Woodstoves -

Energy Use -

Water And Wastewater - Site will not be watered

Solid Waste - vacant site, no waste

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Operational Off-Road Equipment -

## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	8.00
tblLandUse	LandUseSquareFeet	234.00	0.00
tblLandUse	LotAcreage	0.04	0.13
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Site Preparation
tblOffRoadEquipment	PhaseName		Site Preparation
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	0.01	0.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	154,892.58	0.00

## 2.0 Emissions Summary

---







## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**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	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	

**Acres of Grading (Site Preparation Phase): 4****Acres of Grading (Grading Phase): 0****Acres of Paving: 0****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Generator Sets	1	8.00	84	0.74

**Trips and VMT**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2020**

**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					0.5461	0.0000	0.5461	0.0827	0.0000	0.0827			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669		1,816.364 4	1,816.364 4	0.2669		1,823.036 7
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.5461</b>	<b>0.5819</b>	<b>1.1280</b>	<b>0.0827</b>	<b>0.5669</b>	<b>0.6496</b>		<b>1,816.364 4</b>	<b>1,816.364 4</b>	<b>0.2669</b>		<b>1,823.036 7</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**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	0.0195	0.6891	0.1457	1.9000e-003	0.0437	2.2300e-003	0.0459	0.0120	2.1300e-003	0.0141		205.7245	205.7245	0.0147		206.0914
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132
<b>Total</b>	<b>0.0689</b>	<b>0.7224</b>	<b>0.5138</b>	<b>2.9700e-003</b>	<b>0.1555</b>	<b>3.0800e-003</b>	<b>0.1585</b>	<b>0.0416</b>	<b>2.9100e-003</b>	<b>0.0445</b>		<b>312.7610</b>	<b>312.7610</b>	<b>0.0177</b>		<b>313.2046</b>

**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					0.2130	0.0000	0.2130	0.0323	0.0000	0.0323			0.0000			0.0000
Off-Road	1.1581	10.1656	11.5527	0.0190		0.5819	0.5819		0.5669	0.5669	0.0000	1,816.3644	1,816.3644	0.2669		1,823.0367
<b>Total</b>	<b>1.1581</b>	<b>10.1656</b>	<b>11.5527</b>	<b>0.0190</b>	<b>0.2130</b>	<b>0.5819</b>	<b>0.7949</b>	<b>0.0323</b>	<b>0.5669</b>	<b>0.5991</b>	<b>0.0000</b>	<b>1,816.3644</b>	<b>1,816.3644</b>	<b>0.2669</b>		<b>1,823.0367</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**3.2 Demolition - 2020**

**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	0.0195	0.6891	0.1457	1.9000e-003	0.0437	2.2300e-003	0.0459	0.0120	2.1300e-003	0.0141		205.7245	205.7245	0.0147		206.0914
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0494	0.0333	0.3681	1.0700e-003	0.1118	8.5000e-004	0.1126	0.0296	7.8000e-004	0.0304		107.0365	107.0365	3.0700e-003		107.1132
<b>Total</b>	<b>0.0689</b>	<b>0.7224</b>	<b>0.5138</b>	<b>2.9700e-003</b>	<b>0.1555</b>	<b>3.0800e-003</b>	<b>0.1585</b>	<b>0.0416</b>	<b>2.9100e-003</b>	<b>0.0445</b>		<b>312.7610</b>	<b>312.7610</b>	<b>0.0177</b>		<b>313.2046</b>

**3.3 Site Preparation - 2020**

**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	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038		1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.5303</b>	<b>0.3131</b>	<b>0.8434</b>	<b>0.0573</b>	<b>0.3038</b>	<b>0.3610</b>		<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.0395</b>	<b>0.0266</b>	<b>0.2945</b>	<b>8.6000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>85.6292</b>	<b>85.6292</b>	<b>2.4600e-003</b>		<b>85.6906</b>

**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					0.2068	0.0000	0.2068	0.0223	0.0000	0.0223			0.0000			0.0000
Off-Road	0.6440	5.8912	6.9734	0.0117		0.3131	0.3131		0.3038	0.3038	0.0000	1,123.1530	1,123.1530	0.1968		1,128.0738
<b>Total</b>	<b>0.6440</b>	<b>5.8912</b>	<b>6.9734</b>	<b>0.0117</b>	<b>0.2068</b>	<b>0.3131</b>	<b>0.5199</b>	<b>0.0223</b>	<b>0.3038</b>	<b>0.3261</b>	<b>0.0000</b>	<b>1,123.1530</b>	<b>1,123.1530</b>	<b>0.1968</b>		<b>1,128.0738</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**3.3 Site Preparation - 2020**

**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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0395	0.0266	0.2945	8.6000e-004	0.0894	6.8000e-004	0.0901	0.0237	6.2000e-004	0.0243		85.6292	85.6292	2.4600e-003		85.6906
<b>Total</b>	<b>0.0395</b>	<b>0.0266</b>	<b>0.2945</b>	<b>8.6000e-004</b>	<b>0.0894</b>	<b>6.8000e-004</b>	<b>0.0901</b>	<b>0.0237</b>	<b>6.2000e-004</b>	<b>0.0243</b>		<b>85.6292</b>	<b>85.6292</b>	<b>2.4600e-003</b>		<b>85.6906</b>

**4.0 Operational Detail - Mobile**

---

**4.1 Mitigation Measures Mobile**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

	ROG	NOx	CO	SO2	Fugitive 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
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

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925

5.0 Energy Detail

Historical Energy Use: N



Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

5.1 Mitigation Measures Energy

6.0 Area Detail

6.1 Mitigation Measures Area

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**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	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
<b>Total</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>

**7.0 Water Detail**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Winter

---

**7.1 Mitigation Measures Water****8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste****9.0 Operational Offroad**

---

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

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	1.00	Dwelling Unit	0.13	4,080.00	3

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	353.87	<b>CH4 Intensity (lb/MW hr)</b>	0.015	<b>N2O Intensity (lb/MW hr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Conservatively modeled modular structure as permanent SFR

Construction Phase - 2030 operational only

Off-road Equipment -

Off-road Equipment -

Demolition -

Grading - CY export per City information

Vehicle Trips - No net increase in trips

Woodstoves - Assumed no woodstoves/fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

## Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	0.00
tblFireplaces	FireplaceDayYear	25.00	0.00
tblFireplaces	FireplaceHourDay	3.00	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberGas	0.85	0.00
tblFireplaces	NumberNoFireplace	0.10	0.00
tblFireplaces	NumberWood	0.05	0.00
tblLandUse	LandUseSquareFeet	1,800.00	4,080.00
tblLandUse	LotAcreage	0.32	0.13
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblVehicleTrips	ST_TR	9.91	0.00
tblVehicleTrips	SU_TR	8.62	0.00
tblVehicleTrips	WD_TR	9.52	0.00
tblWoodstoves	NumberCatalytic	0.05	0.00
tblWoodstoves	NumberNoncatalytic	0.05	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

## 2.0 Emissions Summary

---



Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

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

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.7837	2.7837	8.0000e-005	4.0000e-005	2.7971
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.2094	0.2301	2.1300e-003	5.0000e-005	0.2989
<b>Total</b>	<b>0.0165</b>	<b>1.3900e-003</b>	<b>0.0108</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.2704</b>	<b>3.0100</b>	<b>3.2803</b>	<b>0.0170</b>	<b>9.0000e-005</b>	<b>3.7318</b>



Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**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	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Energy	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	2.7837	2.7837	8.0000e-005	4.0000e-005	2.7971
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.2094	0.2301	2.1300e-003	5.0000e-005	0.2989
<b>Total</b>	<b>0.0165</b>	<b>1.3900e-003</b>	<b>0.0108</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>1.6000e-004</b>	<b>0.2704</b>	<b>3.0100</b>	<b>3.2803</b>	<b>0.0170</b>	<b>9.0000e-005</b>	<b>3.7318</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	No construction	Demolition	2/19/2020	2/18/2020	5	0	

**Acres of Grading (Site Preparation Phase): 0**

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
No construction	Concrete/Industrial Saws	1	8.00	81	0.73
No construction	Rubber Tired Dozers	1	1.00	247	0.40
No construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
No construction	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area



Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**3.2 No construction - 2020**

**Mitigated Construction On-Site**

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

**Mitigated Construction Off-Site**

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

**4.0 Operational Detail - Mobile**

---

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	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
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.552035	0.041482	0.206421	0.111285	0.012766	0.005738	0.022315	0.037879	0.002185	0.001506	0.004914	0.000717	0.000757

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.3175	1.3175	6.0000e-005	1.0000e-005	1.3223
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1.3175	1.3175	6.0000e-005	1.0000e-005	1.3223
NaturalGas Mitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
NaturalGas Unmitigated	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**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					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>

**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					
Single Family Housing	27474.6	1.5000e-004	1.2700e-003	5.4000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4662	1.4662	3.0000e-005	3.0000e-005	1.4749
<b>Total</b>		<b>1.5000e-004</b>	<b>1.2700e-003</b>	<b>5.4000e-004</b>	<b>1.0000e-005</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>		<b>1.0000e-004</b>	<b>1.0000e-004</b>	<b>0.0000</b>	<b>1.4662</b>	<b>1.4662</b>	<b>3.0000e-005</b>	<b>3.0000e-005</b>	<b>1.4749</b>

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8208.29	1.3175	6.0000e-005	1.0000e-005	1.3223
<b>Total</b>		<b>1.3175</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3223</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	8208.29	1.3175	6.0000e-005	1.0000e-005	1.3223
<b>Total</b>		<b>1.3175</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>1.3223</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

	ROG	NOx	CO	SO2	Fugitive 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	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
Unmitigated	0.0163	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173

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	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0163</b>	<b>1.2000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0173</b>

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**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	1.2800e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0147					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	3.1000e-004	1.2000e-004	0.0103	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0169	0.0169	2.0000e-005	0.0000	0.0173
<b>Total</b>	<b>0.0163</b>	<b>1.2000e-004</b>	<b>0.0103</b>	<b>0.0000</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>		<b>6.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.0169</b>	<b>0.0169</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0173</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.2301	2.1300e-003	5.0000e-005	0.2989
Unmitigated	0.2301	2.1300e-003	5.0000e-005	0.2989

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.2301	2.1300e-003	5.0000e-005	0.2989
<b>Total</b>		<b>0.2301</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.2989</b>

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	0.065154 / 0.0410754	0.2301	2.1300e-003	5.0000e-005	0.2989
<b>Total</b>		<b>0.2301</b>	<b>2.1300e-003</b>	<b>5.0000e-005</b>	<b>0.2989</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.6186
Unmitigated	0.2497	0.0148	0.0000	0.6186

Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
<b>Total</b>		<b>0.2497</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.6186</b>

**9.0 Operational Offroad**

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

## Fire Station No. 9 Replacement Project- Option A Operational GHG Emissions - South Coast AQMD Air District, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**Fire Station No. 9 Replacement Project- Option B**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

---

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	0.13	Acre	0.13	5,662.80	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	9			<b>Operational Year</b>	2030
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	353.87	<b>CH4 Intensity (lb/MWhr)</b>	0.015	<b>N2O Intensity (lb/MWhr)</b>	0.003

**1.3 User Entered Comments & Non-Default Data**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

Project Characteristics - Adjusted for 2030 RPS

Land Use - Conservatively model vacant lot as park

Construction Phase - Schedule based on City-provided information

Off-road Equipment -

Off-road Equipment - Per City-provided info

Off-road Equipment - Per City-provided information

Trips and VMT -

Demolition -

Grading - CY export per City information

Vehicle Trips - No trips vacant lot

Woodstoves -

Energy Use -

Water And Wastewater - Site will not be watered

Solid Waste - vacant site, no waste

Construction Off-road Equipment Mitigation - Watering 3/day per City-provided information

Operational Off-Road Equipment -



## Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	1.00	8.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0.015
tblProjectCharacteristics	CO2IntensityFactor	702.44	353.87
tblProjectCharacteristics	N2OIntensityFactor	0.006	0.003
tblSolidWaste	SolidWasteGenerationRate	0.01	0.00
tblTripsAndVMT	WorkerTripNumber	10.00	13.00
tblTripsAndVMT	WorkerTripNumber	8.00	5.00
tblVehicleTrips	ST_TR	22.75	0.00
tblVehicleTrips	SU_TR	16.74	0.00
tblVehicleTrips	WD_TR	1.89	0.00
tblWater	OutdoorWaterUseRate	154,892.58	0.00

## 2.0 Emissions Summary

---





Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**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	5.0000e-005	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	10/15/2020	10/28/2020	5	10	
2	Site Preparation	Site Preparation	10/29/2020	11/9/2020	5	8	

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**Acres of Grading (Site Preparation Phase): 4**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	1	6.00	158	0.38
Demolition	Generator Sets	1	8.00	84	0.74
Demolition	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Site Preparation					
Site Preparation	Excavators	1	8.00	158	0.38
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	13.00	0.00	25.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	5.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7300e-003	0.0000	2.7300e-003	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0508	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0508</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>2.7300e-003</b>	<b>2.9100e-003</b>	<b>5.6400e-003</b>	<b>4.1000e-004</b>	<b>2.8300e-003</b>	<b>3.2400e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6420	0.6420	2.0000e-005	0.0000	0.6424
<b>Total</b>	<b>3.9000e-004</b>	<b>3.7300e-003</b>	<b>3.1600e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.5853</b>	<b>1.5853</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.5874</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.2 Demolition - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.0600e-003	0.0000	1.0600e-003	1.6000e-004	0.0000	1.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.7900e-003	0.0508	0.0578	1.0000e-004		2.9100e-003	2.9100e-003		2.8300e-003	2.8300e-003	0.0000	8.2389	8.2389	1.2100e-003	0.0000	8.2692
<b>Total</b>	<b>5.7900e-003</b>	<b>0.0508</b>	<b>0.0578</b>	<b>1.0000e-004</b>	<b>1.0600e-003</b>	<b>2.9100e-003</b>	<b>3.9700e-003</b>	<b>1.6000e-004</b>	<b>2.8300e-003</b>	<b>2.9900e-003</b>	<b>0.0000</b>	<b>8.2389</b>	<b>8.2389</b>	<b>1.2100e-003</b>	<b>0.0000</b>	<b>8.2692</b>

**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-004	3.5100e-003	7.0000e-004	1.0000e-005	2.1000e-004	1.0000e-005	2.3000e-004	6.0000e-005	1.0000e-005	7.0000e-005	0.0000	0.9433	0.9433	7.0000e-005	0.0000	0.9449
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.2000e-004	2.4600e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.2000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6420	0.6420	2.0000e-005	0.0000	0.6424
<b>Total</b>	<b>3.9000e-004</b>	<b>3.7300e-003</b>	<b>3.1600e-003</b>	<b>2.0000e-005</b>	<b>9.2000e-004</b>	<b>2.0000e-005</b>	<b>9.5000e-004</b>	<b>2.5000e-004</b>	<b>2.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.5853</b>	<b>1.5853</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>1.5874</b>

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.1200e-003	0.0000	2.1200e-003	2.3000e-004	0.0000	2.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7200e-003	0.0434	0.0295	6.0000e-005		1.8100e-003	1.8100e-003		1.6600e-003	1.6600e-003	0.0000	5.2385	5.2385	1.6900e-003	0.0000	5.2808
<b>Total</b>	<b>3.7200e-003</b>	<b>0.0434</b>	<b>0.0295</b>	<b>6.0000e-005</b>	<b>2.1200e-003</b>	<b>1.8100e-003</b>	<b>3.9300e-003</b>	<b>2.3000e-004</b>	<b>1.6600e-003</b>	<b>1.8900e-003</b>	<b>0.0000</b>	<b>5.2385</b>	<b>5.2385</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>5.2808</b>

**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	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1975	0.1975	1.0000e-005	0.0000	0.1977
<b>Total</b>	<b>9.0000e-005</b>	<b>7.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1975</b>	<b>0.1975</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1977</b>



Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**3.3 Site Preparation - 2020**

**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					8.3000e-004	0.0000	8.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.7200e-003	0.0434	0.0295	6.0000e-005		1.8100e-003	1.8100e-003		1.6600e-003	1.6600e-003	0.0000	5.2385	5.2385	1.6900e-003	0.0000	5.2808
<b>Total</b>	<b>3.7200e-003</b>	<b>0.0434</b>	<b>0.0295</b>	<b>6.0000e-005</b>	<b>8.3000e-004</b>	<b>1.8100e-003</b>	<b>2.6400e-003</b>	<b>9.0000e-005</b>	<b>1.6600e-003</b>	<b>1.7500e-003</b>	<b>0.0000</b>	<b>5.2385</b>	<b>5.2385</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>5.2808</b>

**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	7.6000e-004	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1975	0.1975	1.0000e-005	0.0000	0.1977
<b>Total</b>	<b>9.0000e-005</b>	<b>7.0000e-005</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.2000e-004</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>0.1975</b>	<b>0.1975</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.1977</b>

**4.0 Operational Detail - Mobile**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**4.1 Mitigation Measures Mobile**

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

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
City Park	0.548858	0.043235	0.200706	0.120309	0.016131	0.005851	0.021034	0.033479	0.002070	0.001877	0.004817	0.000707	0.000925





Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**



Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0000e-005					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>5.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**7.0 Water Detail**

---

**7.1 Mitigation Measures Water**

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

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

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>



Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**9.0 Operational Offroad**

---

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

Fire Station No. 9 Replacement Project- Option B - South Coast AQMD Air District, Annual

**10.0 Stationary Equipment**

---

**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

---