

# Appendix – H

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## Air Quality

SBCAPCD HRA Analysis  
and CalEEMod  
Fuel Consumption Data Sheet

Annual Data Sheet

Summer Data Sheet

Winter Data Sheet

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# Goleta Fire Station 10

## HRA Documentation

### 1.0 SUMMARY

An air toxics Health Risk Assessment (HRA) screening was conducted by the Santa Barbara County Air Pollution Control District (District) for the diesel-fired internal combustion engine (DICE) associated with the proposed City of Goleta Fire Station 10 at 7952 Hollister Ave. The HRA screening was conducted using the USEPA-recommended screening model, AERSCREEN, with the Hotspots Analysis and Reporting Program (HARP) software, Version 2 (Build 17320). Cancer risk and chronic non-cancer Hazard Index (HI) risk values were calculated and compared to *significance thresholds* for cancer and chronic non-cancer risk adopted by the District’s Board of Directors. The calculated risk values and applicable thresholds are as follows:

	<u>Fire Station 10 DICE Max Risks</u>	<u>Significance Threshold</u>
Cancer risk:	5.1/million	≥10/million
Chronic non-cancer risk:	<0.1	>1

Based on these results, the proposed DICE at City of Goleta Fire Station 10 does not present a significant risk to the surrounding community. The District has not yet received an Authority to Construct (ATC) application for this project. When the ATC application is received, the District will review the submitted information and determine if the HRA screening described in this document is appropriate for the ATC. The District may perform another HRA screening for the ATC if deemed necessary.

### 2.0 MODELING INFORMATION

The stack parameter inputs to AERSCREEN View are outlined in Table 2.1.

**Table 2.1 – Summary of Stack Parameter Inputs**

Source ID	Source Type	Release Type	Release Height (ft)	Temperature (°F)	Velocity (ft/s)	Diameter (ft)
STCK1	POINT	Capped	7.4	899	141.6	0.342

The rural option was enabled, and a flagpole height of 1.5 meters was used for all receptors. The AERSURFACE output file for the Santa Barbara Airport meteorological data from 2014 was used. The closest residential receptor at 90 m and the closest worker receptor at 130 m from the source were included. The inversion break-up fumigation and shoreline fumigation options were not enabled. Terrain effects were not included in the model. Building downwash was included, and the building information can be found in the spreadsheet titled *GoletaFireStation10\_Building.xlsx*, located in the folder referenced in Section 6.0 of this document.

After the pollutant concentrations were entered into HARP 2, the cancer risk was determined at the maximally exposed individual resident (MEIR) using the “individual resident” receptor type and the breathing rate from the “RMP using the Derived Method” for an exposure duration of 30 years. Under the inhalation pathway, the fraction of time at home (FAH) values were not applied for any age bins. The cancer risk was also determined at the maximally exposed individual worker (MEIW) using the “worker” receptor type and the breathing rate from the “OEHHA Derived Method” for an exposure duration of 25 years. The chronic non-cancer hazard index was calculated for the MEIR using the “individual resident”

receptor type and the breathing rate from the “OEHHA Derived Method.” The chronic non-cancer hazard index was also calculated for the MEIW using the “worker” receptor type and the breathing rate from the “OEHHA Derived Method.” The only exposure pathway analyzed was the inhalation pathway because Diesel PM is not a multipathway pollutant. A list of multipathway pollutants can be found in Table 5.1 of OEHHA’s 2015 Guidance Manual, which is included in Section 4.4 of the District’s *Modeling Guidelines for Health Risk Assessments*, referenced in Section 5.0 of this document.

### 3.0 EMISSIONS

An engine has not yet been selected for this project. Section 2.6.2 of the Draft EIR dated May 2018 states that “The emergency generator is conservatively estimated to have a 150-kW capacity.” The electrical capacity of 150 kW was converted to equal approximately 239 bhp using the methodology described below. Equation 3.1 comes from the District’s *Diesel Engine ATCM FAQ #2 (ver 1.0)*. The efficiency of the engine was assumed to be 84 percent because the engine will likely be a newer model.

$$B = E * \frac{1}{e} * C \tag{Eq. 3.1}$$

where:  $B = \text{brake horsepower (bhp)}$   
 $E = \text{electrical capacity (kW)}$   
 $e = \text{efficiency}$   
 $C = \text{conversion factor} = \frac{1 \text{ bhp}}{0.7 \text{ kW}}$

$$B = 150 \text{ kW} * \frac{1}{0.8} * \frac{1 \text{ bhp}}{0.7 \text{ kW}} = 239 \text{ bhp}$$

The District typically permits new emergency standby DICE to operate for a maximum of 50 hours per year for maintenance and testing purposes. Therefore, 239 brake horsepower, 50 hours per year, and the ARB’s *Airborne Toxic Control Measure for Stationary Compression Ignition Engines* particulate matter (PM) emission standard of 0.15 g/bhp-hr were used to calculate the annual emissions of diesel PM. The calculated emissions for this DICE are shown in Table 3.1.

**Table 3.1 – Facility Emissions Summary**

Pollutant	Emissions (lb/yr)
Diesel PM	3.95

### 4.0 RESULTS

The cancer and chronic non-cancer risks are higher at the maximally exposed individual resident (MEIR) than at the maximally exposed individual worker (MEIW). Table 4.1 displays the cancer and chronic non-cancer risk results at the MEIR. All of the calculated risk values are below the District’s significance thresholds.

**Table 4.1 – Summary of Screening Tool Results**

Pollutant	C <sub>annual</sub> at MEIR (µg/m <sup>3</sup> )	Cancer Risk (per million)	Chronic Non-Cancer Risk (Hazard Index)
Diesel PM	0.00670	<b>5.08</b>	<b>0.001</b>

## 5.0 REFERENCES

- J Risk notification levels were adopted by the Santa Barbara County Air Pollution Control Board of Directors on June 1993. The risk notification levels were set at 10 per million for cancer risk and a Hazard Index of greater than 1.0 for non-cancer risk.
- J Air Resources Board. May 2011. "Final Regulation Order: Amendments to the Airborne Toxic Control Measure for Stationary Compression Ignition Engines." <https://www.arb.ca.gov/diesel/documents/FinalReg2011.pdf>.
- J Office of Environmental Health Hazard Assessment. February 2015. "Air Toxics Hot Spots Program: Risk Assessment Guidelines." California Environmental Protection Agency. <http://oehha.ca.gov/media/downloads/crn/2015guidancemanual.pdf>.
- J Santa Barbara County Air Pollution Control District. May 2018. "Modeling Guidelines for Health Risk Assessments." <http://www.ourair.org/wp-content/uploads/apcd-15i.pdf>.
- J Santa Barbara County Air Pollution Control District. "Diesel Engine ATCM FAQ #2 (ver 1.0)." [https://www.ourair.org/wp-content/uploads/dice\\_atcm\\_faq2\\_ver\\_1.0.pdf](https://www.ourair.org/wp-content/uploads/dice_atcm_faq2_ver_1.0.pdf).

## 6.0 ATTACHMENT

Source parameter data and the AERSCREEN and HARP 2 input and output files for this project may be found in the following location: <\\sbcapcd.org\shares\Toxics\SourceFiles\CEQA\Goleta Fire Station 10\Refined Screening\GoletaFireStation10HRAFiles.zip>

Building ID	Tier Height (m)	Building Type	Corner Number	X-coordinate relative to location of diesel engine (m)	Y-coordinate relative to location of diesel engine (m)
BLD1	6	Polygonal	1	24.3	-20.0
			2	28.1	-9.0
			3	35.2	-13.3
			4	37.6	-9.0
			5	46.2	-14.3
			6	47.6	-11.0
			7	80.5	-26.2
			8	77.6	-31.9
			9	78.6	-33.8
			10	74.8	-42.4
			11	77.2	-43.8
			12	74.8	-48.6
			13	59.5	-40.5
			14	43.3	-33.8
			15	43.8	-30.5
			16	39.1	-29.5
			17	39.5	-28.1

Building Point Number	Blueprint Distance from Engine (c			Convert to Feet				Convert to meters	
	X	Y		X	Y		X	Y	
1		5.1	-4.2	79.6875	-65.625		24.3	-20.0	
2		5.9	-1.9	92.1875	-29.6875		28.1	-9.0	
3		7.4	-2.8	115.625	-43.75		35.2	-13.3	
4		7.9	-1.9	123.4375	-29.6875		37.6	-9.0	
5		9.7	-3	151.5625	-46.875		46.2	-14.3	
6		10	-2.3	156.25	-35.9375		47.6	-11.0	
7		16.9	-5.5	264.0625	-85.9375		80.5	-26.2	
8		16.3	-6.7	254.6875	-104.688		77.6	-31.9	
9		16.5	-7.1	257.8125	-110.938		78.6	-33.8	
10		15.7	-8.9	245.3125	-139.063		74.8	-42.4	
11		16.2	-9.2	253.125	-143.75		77.2	-43.8	
12		15.7	-10.2	245.3125	-159.375		74.8	-48.6	
13		12.5	-8.5	195.3125	-132.813		59.5	-40.5	
14		9.1	-7.1	142.1875	-110.938		43.3	-33.8	
15		9.2	-6.4	143.75	-100		43.8	-30.5	
16		8.2	-6.2	128.125	-96.875		39.1	-29.5	
17		8.3	-5.9	129.6875	-92.1875		39.5	-28.1	

Pollutant	Ef for Diesel Generators	Average Annual Emissions
	(lb/1000 gal)	(lb/yr)
Diesel PM (g/bhp-hr)	0.15	3.9518

Sources:

PM emission factor of 0.15 g/bhp-hr from ARB's ATCM for Stationary Compression Ignition Engines

239 bhp  
50 hr/yr (permitted limit)



Results from AERSCREEN:			
Maximum Hourly Concentration (ug/m3)	Scaled Annual Concentration (ug/m3)	MEIW Cancer Risk (per million)	MEIW Chronic HI
1150 (at 130 m from source)	115	0.40454	0.0013073

1 g/s =	69525	lb/yr
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Pollutant	Average Annual Emissions (lb/yr)	Annual Concentration (ug/m3)
Diesel PM	3.95178135	0.006536564

Results from AERSCREEN:			
Maximum Hourly Concentration (ug/m3)	Scaled Annual Concentration (ug/m3)	MEIR Cancer Risk (per million)	MEIR Chronic HI
1178 (at 90 m from source)	117.8	5.0831	0.0013391

1 g/s =	69525	lb/yr
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Pollutant	Average Annual Emissions (lb/yr)	Annual Concentration (ug/m3)
Diesel PM	3.95178135	0.006695715

Phase	Equipment	Quantity	Hours Each Day	Total Number of Days Worked	Horse Power	Load Factor	Fuel Consumption Rate (Gallons per Hour)	Duration (Total Hours)	Total Fuel Consumption (Gallons)	Sum Total by Phase
Site Preparation	Graders	1	8	43	187	0	4	344	1,319	3,423
	Rubber Tired Dozers	1	7	43	247	0	5	301	1,487	
	Tractors/Loaders/Backhoes	1	8	43	97	0	2	344	617	
Grading	Graders	1	6	43	187	0	4	258	989	2,804
	Rubber Tired Dozers	1	6	43	247	0	5	258	1,275	
	Tractors/Loaders/Backhoes	1	7	43	97	0	2	301	540	
Building Construction	Cranes	1	6	219	231	0	3	1,314	4,401	18,814
	Forklifts	1	6	219	89	0	1	1,314	1,169	
	Generator Sets	1	8	219	84	1	3	1,752	5,445	
	Tractors/Loaders/Backhoes	1	6	219	97	0	2	1,314	2,358	
	Welders	3	8	219	46	0	1	5,256	5,440	
Paving	Cement and Mortar Mixers	1	6	21	9	1	0	126	32	1,300
	Pavers	1	6	21	130	0	3	126	344	
	Paving Equipment	1	8	21	132	0	2	168	399	
	Rollers	1	7	21	80	0	2	147	223	
	Tractors/Loaders/Backhoes	1	8	21	97	0	2	168	301	
Architectural Coating	Air Compressors	1	6	22	78	0	2	132	247	247
<b>Construction Total</b>									<b>26,587</b>	<b>26,587</b>

Phase	Equipment	Quantity	Hours Each Day	Hours/Year	Horse Power	Load Factor	Fuel Consumption Rate (Gallons per Hour)	Total Fuel Consumption (Gallons)
Project Operation	Emergency Diesel Generator	1	8	108	200	0.73	7.3	<b>788</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

**Goleta Fire Station 10**  
**Santa Barbara-South of Santa Ynez Range County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	11.60	1000sqft	0.27	11,600.00	0
Other Asphalt Surfaces	25.95	1000sqft	0.60	25,952.00	0
Parking Lot	16.00	Space	0.14	6,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Project Characteristics - Project details

Land Use - Approximate acreage of parking spaces, paved asphalt areas, and building area. Note: total developed lot acreage does not equate to total site acreage, as some areas of the site would be unpaved or undeveloped.

Construction Phase - Estimated construction schedule based on 4 months for site prep and grading, and 12 months for construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - 9,860 sf tennis court

Grading - Grading details from Project Description. 900 cy of import during grading

Architectural Coating -

Vehicle Trips - ATE Transportation Analysis Trip Rate: 29 ADT

Energy Use -

Construction Off-road Equipment Mitigation - No mitigation assumed in initial run

Mobile Land Use Mitigation -

Energy Mitigation - Project Description includes Energy Efficiency Improvements, but does not specify. Conservatively assuming no energy efficiency improvements as no definitive improvements have been identified

Water Mitigation - Water Conservation measures provided in Section 2.5.9(2) of the Project Description. "Water conservation strategies that reduce indoor and outdoor water use by 20 percent."

Stationary Sources - Emergency Generators and Fire Pumps - Proposed use of a standard emergency diesel generator. Hours/Year = default rate assumption (100 hours) plus operational assurance testing of the generator for 0.5 hour/month and one 2-hour test/year (8 total hours for testing)

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	219.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	43.00
tblGrading	AcresOfGrading	22.88	1.21
tblGrading	AcresOfGrading	30.50	1.21
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LandUseSquareFeet	25,950.00	25,952.00
tblTripsAndVMT	HaulingTripNumber	113.00	112.00
tblVehicleTrips	ST_TR	0.00	0.03
tblVehicleTrips	SU_TR	0.00	0.03
tblVehicleTrips	WD_TR	27.92	0.03

## 2.0 Emissions Summary

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Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2019	8-31-2019	0.6663	0.6663
2	9-1-2019	11-30-2019	0.6162	0.6162
3	12-1-2019	2-29-2020	0.5928	0.5928
4	3-1-2020	5-31-2020	0.5820	0.5820
5	6-1-2020	8-31-2020	0.4905	0.4905
6	9-1-2020	9-30-2020	0.1629	0.1629
		Highest	0.6663	0.6663

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	0.0620	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003
Energy	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	58.0787	58.0787	2.2700e-003	5.5000e-004	58.2999
Mobile	1.1000e-004	3.7000e-004	1.0500e-003	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1956	0.1956	1.0000e-005	0.0000	0.1959
Stationary	0.0177	0.0495	0.0452	9.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	8.2252	8.2252	1.1500e-003	0.0000	8.2541
Waste						0.0000	0.0000		0.0000	0.0000	13.7307	0.0000	13.7307	0.6809	0.0000	30.7522
Water						0.0000	0.0000		0.0000	0.0000	0.8153	5.5481	6.3634	3.0400e-003	1.8200e-003	6.9818
<b>Total</b>	<b>0.0804</b>	<b>0.0551</b>	<b>0.0511</b>	<b>1.2000e-004</b>	<b>1.8000e-004</b>	<b>3.0000e-003</b>	<b>3.1800e-003</b>	<b>5.0000e-005</b>	<b>3.0000e-003</b>	<b>3.0500e-003</b>	<b>14.5460</b>	<b>72.0486</b>	<b>86.5946</b>	<b>0.6873</b>	<b>2.3700e-003</b>	<b>104.4849</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	0.0620	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003
Energy	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	58.0787	58.0787	2.2700e-003	5.5000e-004	58.2999
Mobile	1.1000e-004	3.7000e-004	1.0500e-003	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1956	0.1956	1.0000e-005	0.0000	0.1959
Stationary	0.0177	0.0495	0.0452	9.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	8.2252	8.2252	1.1500e-003	0.0000	8.2541
Waste						0.0000	0.0000		0.0000	0.0000	13.7307	0.0000	13.7307	0.6809	0.0000	30.7522
Water						0.0000	0.0000		0.0000	0.0000	0.6523	4.4385	5.0907	2.4300e-003	1.4600e-003	5.5854
<b>Total</b>	<b>0.0804</b>	<b>0.0551</b>	<b>0.0511</b>	<b>1.2000e-004</b>	<b>1.8000e-004</b>	<b>3.0000e-003</b>	<b>3.1800e-003</b>	<b>5.0000e-005</b>	<b>3.0000e-003</b>	<b>3.0500e-003</b>	<b>14.3830</b>	<b>70.9390</b>	<b>85.3219</b>	<b>0.6867</b>	<b>2.0100e-003</b>	<b>103.0885</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>1.12</b>	<b>1.54</b>	<b>1.47</b>	<b>0.09</b>	<b>15.19</b>	<b>1.34</b>

**3.0 Construction Detail**

**Construction Phase**



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2019	7/31/2019	5	43	
2	Grading	Grading	8/1/2019	9/30/2019	5	43	
3	Building Construction	Building Construction	10/1/2019	7/31/2020	5	219	
4	Paving	Paving	8/1/2020	8/31/2020	5	21	
5	Architectural Coating	Architectural Coating	9/1/2020	9/30/2020	5	22	

**Acres of Grading (Site Preparation Phase): 1.21**

**Acres of Grading (Grading Phase): 1.21**

**Acres of Paving: 0.74**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 17,400; Non-Residential Outdoor: 5,800; Striped Parking Area: 1,941 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	112.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1614	0.0000	0.1614	0.0884	0.0000	0.0884	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.4189	0.1696	3.7000e-004		0.0190	0.0190		0.0175	0.0175	0.0000	33.2535	33.2535	0.0105	0.0000	33.5166
<b>Total</b>	<b>0.0368</b>	<b>0.4189</b>	<b>0.1696</b>	<b>3.7000e-004</b>	<b>0.1614</b>	<b>0.0190</b>	<b>0.1803</b>	<b>0.0884</b>	<b>0.0175</b>	<b>0.1059</b>	<b>0.0000</b>	<b>33.2535</b>	<b>33.2535</b>	<b>0.0105</b>	<b>0.0000</b>	<b>33.5166</b>

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**3.2 Site Preparation - 2019**

**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	6.1000e-004	5.3000e-004	4.6200e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8952	0.8952	3.0000e-005	0.0000	0.8961
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6200e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8952</b>	<b>0.8952</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8961</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	tons/yr										MT/yr					
Fugitive Dust					0.1614	0.0000	0.1614	0.0884	0.0000	0.0884	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0368	0.4189	0.1696	3.7000e-004		0.0190	0.0190		0.0175	0.0175	0.0000	33.2535	33.2535	0.0105	0.0000	33.5165
<b>Total</b>	<b>0.0368</b>	<b>0.4189</b>	<b>0.1696</b>	<b>3.7000e-004</b>	<b>0.1614</b>	<b>0.0190</b>	<b>0.1803</b>	<b>0.0884</b>	<b>0.0175</b>	<b>0.1059</b>	<b>0.0000</b>	<b>33.2535</b>	<b>33.2535</b>	<b>0.0105</b>	<b>0.0000</b>	<b>33.5165</b>

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**3.2 Site Preparation - 2019**

**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	6.1000e-004	5.3000e-004	4.6200e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8952	0.8952	3.0000e-005	0.0000	0.8961
<b>Total</b>	<b>6.1000e-004</b>	<b>5.3000e-004</b>	<b>4.6200e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0700e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>	<b>0.0000</b>	<b>0.8952</b>	<b>0.8952</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.8961</b>

**3.3 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1385	0.0000	0.1385	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.3448	0.1420	3.0000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	27.2359	27.2359	8.6200e-003	0.0000	27.4513
<b>Total</b>	<b>0.0305</b>	<b>0.3448</b>	<b>0.1420</b>	<b>3.0000e-004</b>	<b>0.1385</b>	<b>0.0158</b>	<b>0.1543</b>	<b>0.0758</b>	<b>0.0146</b>	<b>0.0904</b>	<b>0.0000</b>	<b>27.2359</b>	<b>27.2359</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>27.4513</b>

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**3.3 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0187	5.3800e-003	4.0000e-005	9.5000e-004	1.0000e-004	1.0600e-003	2.6000e-004	1.0000e-004	3.6000e-004	0.0000	4.4307	4.4307	3.9000e-004	0.0000	4.4405
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	5.3000e-004	4.6200e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8952	0.8952	3.0000e-005	0.0000	0.8961
<b>Total</b>	<b>1.1500e-003</b>	<b>0.0192</b>	<b>0.0100</b>	<b>5.0000e-005</b>	<b>2.0100e-003</b>	<b>1.1000e-004</b>	<b>2.1300e-003</b>	<b>5.4000e-004</b>	<b>1.1000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>5.3259</b>	<b>5.3259</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>5.3365</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	tons/yr										MT/yr					
Fugitive Dust					0.1385	0.0000	0.1385	0.0758	0.0000	0.0758	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0305	0.3448	0.1420	3.0000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	27.2358	27.2358	8.6200e-003	0.0000	27.4513
<b>Total</b>	<b>0.0305</b>	<b>0.3448</b>	<b>0.1420</b>	<b>3.0000e-004</b>	<b>0.1385</b>	<b>0.0158</b>	<b>0.1543</b>	<b>0.0758</b>	<b>0.0146</b>	<b>0.0904</b>	<b>0.0000</b>	<b>27.2358</b>	<b>27.2358</b>	<b>8.6200e-003</b>	<b>0.0000</b>	<b>27.4513</b>

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**3.3 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	5.4000e-004	0.0187	5.3800e-003	4.0000e-005	9.5000e-004	1.0000e-004	1.0600e-003	2.6000e-004	1.0000e-004	3.6000e-004	0.0000	4.4307	4.4307	3.9000e-004	0.0000	4.4405
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.1000e-004	5.3000e-004	4.6200e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0700e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8952	0.8952	3.0000e-005	0.0000	0.8961
<b>Total</b>	<b>1.1500e-003</b>	<b>0.0192</b>	<b>0.0100</b>	<b>5.0000e-005</b>	<b>2.0100e-003</b>	<b>1.1000e-004</b>	<b>2.1300e-003</b>	<b>5.4000e-004</b>	<b>1.1000e-004</b>	<b>6.5000e-004</b>	<b>0.0000</b>	<b>5.3259</b>	<b>5.3259</b>	<b>4.2000e-004</b>	<b>0.0000</b>	<b>5.3365</b>

**3.4 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0750	0.5274	0.4451	7.3000e-004		0.0302	0.0302		0.0292	0.0292	0.0000	60.4137	60.4137	0.0116	0.0000	60.7041
<b>Total</b>	<b>0.0750</b>	<b>0.5274</b>	<b>0.4451</b>	<b>7.3000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>60.4137</b>	<b>60.4137</b>	<b>0.0116</b>	<b>0.0000</b>	<b>60.7041</b>

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**3.4 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-003	0.0281	0.0102	6.0000e-005	1.3400e-003	2.2000e-004	1.5600e-003	3.9000e-004	2.1000e-004	6.0000e-004	0.0000	5.4160	5.4160	4.1000e-004	0.0000	5.4263
Worker	1.9800e-003	1.7300e-003	0.0151	3.0000e-005	3.4600e-003	2.0000e-005	3.4900e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9198	2.9198	1.1000e-004	0.0000	2.9226
<b>Total</b>	<b>3.1400e-003</b>	<b>0.0298</b>	<b>0.0252</b>	<b>9.0000e-005</b>	<b>4.8000e-003</b>	<b>2.4000e-004</b>	<b>5.0500e-003</b>	<b>1.3100e-003</b>	<b>2.3000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>8.3358</b>	<b>8.3358</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>8.3489</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	tons/yr										MT/yr					
Off-Road	0.0750	0.5274	0.4451	7.3000e-004		0.0302	0.0302		0.0292	0.0292	0.0000	60.4137	60.4137	0.0116	0.0000	60.7040
<b>Total</b>	<b>0.0750</b>	<b>0.5274</b>	<b>0.4451</b>	<b>7.3000e-004</b>		<b>0.0302</b>	<b>0.0302</b>		<b>0.0292</b>	<b>0.0292</b>	<b>0.0000</b>	<b>60.4137</b>	<b>60.4137</b>	<b>0.0116</b>	<b>0.0000</b>	<b>60.7040</b>



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**3.4 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.1600e-003	0.0281	0.0102	6.0000e-005	1.3400e-003	2.2000e-004	1.5600e-003	3.9000e-004	2.1000e-004	6.0000e-004	0.0000	5.4160	5.4160	4.1000e-004	0.0000	5.4263
Worker	1.9800e-003	1.7300e-003	0.0151	3.0000e-005	3.4600e-003	2.0000e-005	3.4900e-003	9.2000e-004	2.0000e-005	9.4000e-004	0.0000	2.9198	2.9198	1.1000e-004	0.0000	2.9226
<b>Total</b>	<b>3.1400e-003</b>	<b>0.0298</b>	<b>0.0252</b>	<b>9.0000e-005</b>	<b>4.8000e-003</b>	<b>2.4000e-004</b>	<b>5.0500e-003</b>	<b>1.3100e-003</b>	<b>2.3000e-004</b>	<b>1.5400e-003</b>	<b>0.0000</b>	<b>8.3358</b>	<b>8.3358</b>	<b>5.2000e-004</b>	<b>0.0000</b>	<b>8.3489</b>

**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	0.1553	1.1313	1.0089	1.6900e-003		0.0609	0.0609		0.0588	0.0588	0.0000	138.8797	138.8797	0.0258	0.0000	139.5243
<b>Total</b>	<b>0.1553</b>	<b>1.1313</b>	<b>1.0089</b>	<b>1.6900e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0588</b>	<b>0.0588</b>	<b>0.0000</b>	<b>138.8797</b>	<b>138.8797</b>	<b>0.0258</b>	<b>0.0000</b>	<b>139.5243</b>

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**3.4 Building Construction - 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	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	2.1500e-003	0.0594	0.0208	1.3000e-004	3.1100e-003	3.2000e-004	3.4300e-003	9.0000e-004	3.1000e-004	1.2000e-003	0.0000	12.4906	12.4906	9.4000e-004	0.0000	12.5142
Worker	4.1800e-003	3.5300e-003	0.0309	7.0000e-005	8.0300e-003	5.0000e-005	8.0800e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5602	6.5602	2.2000e-004	0.0000	6.5658
<b>Total</b>	<b>6.3300e-003</b>	<b>0.0630</b>	<b>0.0516</b>	<b>2.0000e-004</b>	<b>0.0111</b>	<b>3.7000e-004</b>	<b>0.0115</b>	<b>3.0300e-003</b>	<b>3.6000e-004</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>19.0509</b>	<b>19.0509</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>19.0800</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	tons/yr										MT/yr					
Off-Road	0.1553	1.1313	1.0089	1.6900e-003		0.0609	0.0609		0.0588	0.0588	0.0000	138.8796	138.8796	0.0258	0.0000	139.5241
<b>Total</b>	<b>0.1553</b>	<b>1.1313</b>	<b>1.0089</b>	<b>1.6900e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0588</b>	<b>0.0588</b>	<b>0.0000</b>	<b>138.8796</b>	<b>138.8796</b>	<b>0.0258</b>	<b>0.0000</b>	<b>139.5241</b>

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**3.4 Building Construction - 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	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	2.1500e-003	0.0594	0.0208	1.3000e-004	3.1100e-003	3.2000e-004	3.4300e-003	9.0000e-004	3.1000e-004	1.2000e-003	0.0000	12.4906	12.4906	9.4000e-004	0.0000	12.5142
Worker	4.1800e-003	3.5300e-003	0.0309	7.0000e-005	8.0300e-003	5.0000e-005	8.0800e-003	2.1300e-003	5.0000e-005	2.1800e-003	0.0000	6.5602	6.5602	2.2000e-004	0.0000	6.5658
<b>Total</b>	<b>6.3300e-003</b>	<b>0.0630</b>	<b>0.0516</b>	<b>2.0000e-004</b>	<b>0.0111</b>	<b>3.7000e-004</b>	<b>0.0115</b>	<b>3.0300e-003</b>	<b>3.6000e-004</b>	<b>3.3800e-003</b>	<b>0.0000</b>	<b>19.0509</b>	<b>19.0509</b>	<b>1.1600e-003</b>	<b>0.0000</b>	<b>19.0800</b>

**3.5 Paving - 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	8.8200e-003	0.0887	0.0932	1.4000e-004		4.9300e-003	4.9300e-003		4.5400e-003	4.5400e-003	0.0000	12.3540	12.3540	3.9200e-003	0.0000	12.4519
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.7900e-003</b>	<b>0.0887</b>	<b>0.0932</b>	<b>1.4000e-004</b>		<b>4.9300e-003</b>	<b>4.9300e-003</b>		<b>4.5400e-003</b>	<b>4.5400e-003</b>	<b>0.0000</b>	<b>12.3540</b>	<b>12.3540</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>12.4519</b>

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**3.5 Paving - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.7000e-004	3.2400e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.6886	0.6886	2.0000e-005	0.0000	0.6891
<b>Total</b>	<b>4.4000e-004</b>	<b>3.7000e-004</b>	<b>3.2400e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.6886</b>	<b>0.6886</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6891</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	tons/yr										MT/yr					
Off-Road	8.8200e-003	0.0887	0.0932	1.4000e-004		4.9300e-003	4.9300e-003		4.5400e-003	4.5400e-003	0.0000	12.3540	12.3540	3.9200e-003	0.0000	12.4519
Paving	9.7000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>9.7900e-003</b>	<b>0.0887</b>	<b>0.0932</b>	<b>1.4000e-004</b>		<b>4.9300e-003</b>	<b>4.9300e-003</b>		<b>4.5400e-003</b>	<b>4.5400e-003</b>	<b>0.0000</b>	<b>12.3540</b>	<b>12.3540</b>	<b>3.9200e-003</b>	<b>0.0000</b>	<b>12.4519</b>

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**3.5 Paving - 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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.7000e-004	3.2400e-003	1.0000e-005	8.4000e-004	1.0000e-005	8.5000e-004	2.2000e-004	1.0000e-005	2.3000e-004	0.0000	0.6886	0.6886	2.0000e-005	0.0000	0.6891
<b>Total</b>	<b>4.4000e-004</b>	<b>3.7000e-004</b>	<b>3.2400e-003</b>	<b>1.0000e-005</b>	<b>8.4000e-004</b>	<b>1.0000e-005</b>	<b>8.5000e-004</b>	<b>2.2000e-004</b>	<b>1.0000e-005</b>	<b>2.3000e-004</b>	<b>0.0000</b>	<b>0.6886</b>	<b>0.6886</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.6891</b>

**3.6 Architectural Coating - 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					
Archit. Coating	0.1457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0185	0.0202	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	2.8086	2.8086	2.2000e-004	0.0000	2.8140
<b>Total</b>	<b>0.1483</b>	<b>0.0185</b>	<b>0.0202</b>	<b>3.0000e-005</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.8140</b>

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**3.6 Architectural Coating - 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	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	2.1000e-004	1.8000e-004	1.5700e-003	0.0000	7.6000e-004	0.0000	7.6000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.3329	0.3329	1.0000e-005	0.0000	0.3332
<b>Total</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.3329</b>	<b>0.3329</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3332</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	tons/yr										MT/yr					
Archit. Coating	0.1457					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0185	0.0202	3.0000e-005		1.2200e-003	1.2200e-003		1.2200e-003	1.2200e-003	0.0000	2.8086	2.8086	2.2000e-004	0.0000	2.8140
<b>Total</b>	<b>0.1483</b>	<b>0.0185</b>	<b>0.0202</b>	<b>3.0000e-005</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>		<b>1.2200e-003</b>	<b>1.2200e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>2.8140</b>

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**3.6 Architectural Coating - 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	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	2.1000e-004	1.8000e-004	1.5700e-003	0.0000	7.6000e-004	0.0000	7.6000e-004	1.9000e-004	0.0000	2.0000e-004	0.0000	0.3329	0.3329	1.0000e-005	0.0000	0.3332
<b>Total</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>1.5700e-003</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>0.0000</b>	<b>7.6000e-004</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>0.3329</b>	<b>0.3329</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.3332</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.1000e-004	3.7000e-004	1.0500e-003	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1956	0.1956	1.0000e-005	0.0000	0.1959
Unmitigated	1.1000e-004	3.7000e-004	1.0500e-003	0.0000	1.8000e-004	0.0000	1.8000e-004	5.0000e-005	0.0000	5.0000e-005	0.0000	0.1956	0.1956	1.0000e-005	0.0000	0.1959

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	0.35	0.35	0.35	474	474
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.35	0.35	0.35	474	474

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	6.60	5.50	6.40	75.00	20.00	5.00	50	34	16
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Other Asphalt Surfaces	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Parking Lot	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156

**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	52.4209	52.4209	2.1600e-003	4.5000e-004	52.6084
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	52.4209	52.4209	2.1600e-003	4.5000e-004	52.6084
NaturalGas Mitigated	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6578	5.6578	1.1000e-004	1.0000e-004	5.6915
NaturalGas Unmitigated	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6578	5.6578	1.1000e-004	1.0000e-004	5.6915

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Government (Civic Center)	106024	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6578	5.6578	1.1000e-004	1.0000e-004	5.6915
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.7000e-004</b>	<b>5.2000e-003</b>	<b>4.3700e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.6578</b>	<b>5.6578</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6915</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					
Government (Civic Center)	106024	5.7000e-004	5.2000e-003	4.3700e-003	3.0000e-005		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	5.6578	5.6578	1.1000e-004	1.0000e-004	5.6915
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.7000e-004</b>	<b>5.2000e-003</b>	<b>4.3700e-003</b>	<b>3.0000e-005</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>		<b>3.9000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>5.6578</b>	<b>5.6578</b>	<b>1.1000e-004</b>	<b>1.0000e-004</b>	<b>5.6915</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	162284	51.7072	2.1300e-003	4.4000e-004	51.8921
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2240	0.7137	3.0000e-005	1.0000e-005	0.7163
<b>Total</b>		<b>52.4209</b>	<b>2.1600e-003</b>	<b>4.5000e-004</b>	<b>52.6084</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	162284	51.7072	2.1300e-003	4.4000e-004	51.8921
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	2240	0.7137	3.0000e-005	1.0000e-005	0.7163
<b>Total</b>		<b>52.4209</b>	<b>2.1600e-003</b>	<b>4.5000e-004</b>	<b>52.6084</b>

**6.0 Area Detail**

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**6.1 Mitigation Measures Area**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0620	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003
Unmitigated	0.0620	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003

**6.2 Area by SubCategory**

**Unmitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003
<b>Total</b>	<b>0.0620</b>	<b>0.0000</b>	<b>5.0000e-004</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>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0200e-003</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0146					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0474					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-005	0.0000	5.0000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.6000e-004	9.6000e-004	0.0000	0.0000	1.0200e-003
<b>Total</b>	<b>0.0620</b>	<b>0.0000</b>	<b>5.0000e-004</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>9.6000e-004</b>	<b>9.6000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0200e-003</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.0907	2.4300e-003	1.4600e-003	5.5854
Unmitigated	6.3634	3.0400e-003	1.8200e-003	6.9818

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	2.30445 / 1.41241	6.3634	3.0400e-003	1.8200e-003	6.9818
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.3634</b>	<b>3.0400e-003</b>	<b>1.8200e-003</b>	<b>6.9818</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	1.84356 / 1.12993	5.0907	2.4300e-003	1.4600e-003	5.5854
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.0907</b>	<b>2.4300e-003</b>	<b>1.4600e-003</b>	<b>5.5854</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	13.7307	0.6809	0.0000	30.7522
Unmitigated	13.7307	0.6809	0.0000	30.7522

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	66.12	13.7307	0.6809	0.0000	30.7522
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.7307</b>	<b>0.6809</b>	<b>0.0000</b>	<b>30.7522</b>



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	66.12	13.7307	0.6809	0.0000	30.7522
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>13.7307</b>	<b>0.6809</b>	<b>0.0000</b>	<b>30.7522</b>

**9.0 Operational Offroad**

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

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	108	200	0.73	Diesel

**Boilers**

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

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Annual

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (175 - 300 HP)	0.0177	0.0495	0.0452	9.0000e-005		2.6100e-003	2.6100e-003		2.6100e-003	2.6100e-003	0.0000	8.2252	8.2252	1.1500e-003	0.0000	8.2541
<b>Total</b>	<b>0.0177</b>	<b>0.0495</b>	<b>0.0452</b>	<b>9.0000e-005</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>		<b>2.6100e-003</b>	<b>2.6100e-003</b>	<b>0.0000</b>	<b>8.2252</b>	<b>8.2252</b>	<b>1.1500e-003</b>	<b>0.0000</b>	<b>8.2541</b>

**11.0 Vegetation**

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Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**Goleta Fire Station 10**  
**Santa Barbara-South of Santa Ynez Range County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	11.60	1000sqft	0.27	11,600.00	0
Other Asphalt Surfaces	25.95	1000sqft	0.60	25,952.00	0
Parking Lot	16.00	Space	0.14	6,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

Project Characteristics - Project details

Land Use - Approximate acreage of parking spaces, paved asphalt areas, and building area. Note: total developed lot acreage does not equate to total site acreage, as some areas of the site would be unpaved or undeveloped.

Construction Phase - Estimated construction schedule based on 4 months for site prep and grading, and 12 months for construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - 9,860 sf tennis court

Grading - Grading details from Project Description. 900 cy of import during grading

Architectural Coating -

Vehicle Trips - ATE Transportation Analysis Trip Rate: 29 ADT

Energy Use -

Construction Off-road Equipment Mitigation - No mitigation assumed in initial run

Mobile Land Use Mitigation -

Energy Mitigation - Project Description includes Energy Efficiency Improvements, but does not specify. Conservatively assuming no energy efficiency improvements as no definitive improvements have been identified

Water Mitigation - Water Conservation measures provided in Section 2.5.9(2) of the Project Description. "Water conservation strategies that reduce indoor and outdoor water use by 20 percent."

Stationary Sources - Emergency Generators and Fire Pumps - Proposed use of a standard emergency diesel generator. Hours/Year = default rate assumption (100 hours) plus operational assurance testing of the generator for 0.5 hour/month and one 2-hour test/year (8 total hours for testing)

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	219.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	43.00
tblGrading	AcresOfGrading	22.88	1.21
tblGrading	AcresOfGrading	30.50	1.21
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LandUseSquareFeet	25,950.00	25,952.00
tblTripsAndVMT	HaulingTripNumber	113.00	112.00
tblVehicleTrips	ST_TR	0.00	0.03
tblVehicleTrips	SU_TR	0.00	0.03
tblVehicleTrips	WD_TR	27.92	0.03

## 2.0 Emissions Summary

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Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Energy	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Mobile	6.4000e-004	1.9700e-003	5.4700e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.2082	1.2082	7.0000e-005		1.2099
Stationary	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.9695</b>	<b>7.3693</b>	<b>6.7299</b>	<b>0.0128</b>	<b>1.0100e-003</b>	<b>0.3884</b>	<b>0.3895</b>	<b>2.7000e-004</b>	<b>0.3884</b>	<b>0.3887</b>		<b>1,378.6162</b>	<b>1,378.6162</b>	<b>0.1891</b>	<b>6.3000e-004</b>	<b>1,383.5298</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Energy	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Mobile	6.4000e-004	1.9700e-003	5.4700e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.2082	1.2082	7.0000e-005		1.2099
Stationary	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.9695</b>	<b>7.3693</b>	<b>6.7299</b>	<b>0.0128</b>	<b>1.0100e-003</b>	<b>0.3884</b>	<b>0.3895</b>	<b>2.7000e-004</b>	<b>0.3884</b>	<b>0.3887</b>		<b>1,378.6162</b>	<b>1,378.6162</b>	<b>0.1891</b>	<b>6.3000e-004</b>	<b>1,383.5298</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**



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2019	7/31/2019	5	43	
2	Grading	Grading	8/1/2019	9/30/2019	5	43	
3	Building Construction	Building Construction	10/1/2019	7/31/2020	5	219	
4	Paving	Paving	8/1/2020	8/31/2020	5	21	
5	Architectural Coating	Architectural Coating	9/1/2020	9/30/2020	5	22	

**Acres of Grading (Site Preparation Phase): 1.21**

**Acres of Grading (Grading Phase): 1.21**

**Acres of Paving: 0.74**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 17,400; Non-Residential Outdoor: 5,800; Striped Parking Area: 1,941 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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
Site Preparation	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	112.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2019**

**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					7.5049	0.0000	7.5049	4.1121	0.0000	4.1121			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>7.5049</b>	<b>0.8824</b>	<b>8.3873</b>	<b>4.1121</b>	<b>0.8118</b>	<b>4.9239</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.2 Site Preparation - 2019**

**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	0.0275	0.0221	0.2118	4.7000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		46.9183	46.9183	1.7700e-003		46.9624
<b>Total</b>	<b>0.0275</b>	<b>0.0221</b>	<b>0.2118</b>	<b>4.7000e-004</b>	<b>0.0505</b>	<b>3.3000e-004</b>	<b>0.0509</b>	<b>0.0134</b>	<b>3.1000e-004</b>	<b>0.0137</b>		<b>46.9183</b>	<b>46.9183</b>	<b>1.7700e-003</b>		<b>46.9624</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					7.5049	0.0000	7.5049	4.1121	0.0000	4.1121			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>7.5049</b>	<b>0.8824</b>	<b>8.3873</b>	<b>4.1121</b>	<b>0.8118</b>	<b>4.9239</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.2 Site Preparation - 2019**

**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	0.0275	0.0221	0.2118	4.7000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		46.9183	46.9183	1.7700e-003		46.9624
<b>Total</b>	<b>0.0275</b>	<b>0.0221</b>	<b>0.2118</b>	<b>4.7000e-004</b>	<b>0.0505</b>	<b>3.3000e-004</b>	<b>0.0509</b>	<b>0.0134</b>	<b>3.1000e-004</b>	<b>0.0137</b>		<b>46.9183</b>	<b>46.9183</b>	<b>1.7700e-003</b>		<b>46.9624</b>

**3.3 Grading - 2019**

**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					6.4402	0.0000	6.4402	3.5256	0.0000	3.5256			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>6.4402</b>	<b>0.7365</b>	<b>7.1766</b>	<b>3.5256</b>	<b>0.6775</b>	<b>4.2032</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.3 Grading - 2019**

**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	0.0249	0.8497	0.2450	2.0600e-003	0.0453	4.6900e-003	0.0499	0.0124	4.4800e-003	0.0169		228.4062	228.4062	0.0199		228.9033
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	0.0275	0.0221	0.2118	4.7000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		46.9183	46.9183	1.7700e-003		46.9624
<b>Total</b>	<b>0.0524</b>	<b>0.8717</b>	<b>0.4568</b>	<b>2.5300e-003</b>	<b>0.0958</b>	<b>5.0200e-003</b>	<b>0.1008</b>	<b>0.0258</b>	<b>4.7900e-003</b>	<b>0.0306</b>		<b>275.3245</b>	<b>275.3245</b>	<b>0.0217</b>		<b>275.8657</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					6.4402	0.0000	6.4402	3.5256	0.0000	3.5256			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>6.4402</b>	<b>0.7365</b>	<b>7.1766</b>	<b>3.5256</b>	<b>0.6775</b>	<b>4.2032</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.3 Grading - 2019**

**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	0.0249	0.8497	0.2450	2.0600e-003	0.0453	4.6900e-003	0.0499	0.0124	4.4800e-003	0.0169		228.4062	228.4062	0.0199		228.9033
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	0.0275	0.0221	0.2118	4.7000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		46.9183	46.9183	1.7700e-003		46.9624
<b>Total</b>	<b>0.0524</b>	<b>0.8717</b>	<b>0.4568</b>	<b>2.5300e-003</b>	<b>0.0958</b>	<b>5.0200e-003</b>	<b>0.1008</b>	<b>0.0258</b>	<b>4.7900e-003</b>	<b>0.0306</b>		<b>275.3245</b>	<b>275.3245</b>	<b>0.0217</b>		<b>275.8657</b>

**3.4 Building Construction - 2019**

**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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.4 Building Construction - 2019**

**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	0.0343	0.8387	0.2927	1.6900e-003	0.0415	6.5400e-003	0.0480	0.0119	6.2600e-003	0.0182		182.6497	182.6497	0.0136		182.9886
Worker	0.0584	0.0469	0.4501	1.0000e-003	0.1074	7.1000e-004	0.1081	0.0285	6.5000e-004	0.0291		99.7013	99.7013	3.7500e-003		99.7951
<b>Total</b>	<b>0.0927</b>	<b>0.8855</b>	<b>0.7428</b>	<b>2.6900e-003</b>	<b>0.1488</b>	<b>7.2500e-003</b>	<b>0.1561</b>	<b>0.0404</b>	<b>6.9100e-003</b>	<b>0.0473</b>		<b>282.3510</b>	<b>282.3510</b>	<b>0.0173</b>		<b>282.7837</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					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.4 Building Construction - 2019**

**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	0.0343	0.8387	0.2927	1.6900e-003	0.0415	6.5400e-003	0.0480	0.0119	6.2600e-003	0.0182		182.6497	182.6497	0.0136		182.9886
Worker	0.0584	0.0469	0.4501	1.0000e-003	0.1074	7.1000e-004	0.1081	0.0285	6.5000e-004	0.0291		99.7013	99.7013	3.7500e-003		99.7951
<b>Total</b>	<b>0.0927</b>	<b>0.8855</b>	<b>0.7428</b>	<b>2.6900e-003</b>	<b>0.1488</b>	<b>7.2500e-003</b>	<b>0.1561</b>	<b>0.0404</b>	<b>6.9100e-003</b>	<b>0.0473</b>		<b>282.3510</b>	<b>282.3510</b>	<b>0.0173</b>		<b>282.7837</b>

**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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.4 Building Construction - 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	0.0274	0.7671	0.2582	1.6700e-003	0.0415	4.1300e-003	0.0456	0.0119	3.9500e-003	0.0159		181.7640	181.7640	0.0133		182.0968
Worker	0.0532	0.0412	0.3984	9.7000e-004	0.1074	6.8000e-004	0.1081	0.0285	6.3000e-004	0.0291		96.6329	96.6329	3.2300e-003		96.7138
<b>Total</b>	<b>0.0806</b>	<b>0.8083</b>	<b>0.6566</b>	<b>2.6400e-003</b>	<b>0.1488</b>	<b>4.8100e-003</b>	<b>0.1536</b>	<b>0.0404</b>	<b>4.5800e-003</b>	<b>0.0450</b>		<b>278.3970</b>	<b>278.3970</b>	<b>0.0165</b>		<b>278.8106</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					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.4 Building Construction - 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	0.0274	0.7671	0.2582	1.6700e-003	0.0415	4.1300e-003	0.0456	0.0119	3.9500e-003	0.0159		181.7640	181.7640	0.0133		182.0968
Worker	0.0532	0.0412	0.3984	9.7000e-004	0.1074	6.8000e-004	0.1081	0.0285	6.3000e-004	0.0291		96.6329	96.6329	3.2300e-003		96.7138
<b>Total</b>	<b>0.0806</b>	<b>0.8083</b>	<b>0.6566</b>	<b>2.6400e-003</b>	<b>0.1488</b>	<b>4.8100e-003</b>	<b>0.1536</b>	<b>0.0404</b>	<b>4.5800e-003</b>	<b>0.0450</b>		<b>278.3970</b>	<b>278.3970</b>	<b>0.0165</b>		<b>278.8106</b>

**3.5 Paving - 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	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9325</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>		<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.5 Paving - 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	0.0406	0.0315	0.3046	7.4000e-004	0.0821	5.2000e-004	0.0826	0.0218	4.8000e-004	0.0223		73.8958	73.8958	2.4700e-003		73.9576
<b>Total</b>	<b>0.0406</b>	<b>0.0315</b>	<b>0.3046</b>	<b>7.4000e-004</b>	<b>0.0821</b>	<b>5.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>73.8958</b>	<b>73.8958</b>	<b>2.4700e-003</b>		<b>73.9576</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					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9325</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>	<b>0.0000</b>	<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.5 Paving - 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	0.0406	0.0315	0.3046	7.4000e-004	0.0821	5.2000e-004	0.0826	0.0218	4.8000e-004	0.0223		73.8958	73.8958	2.4700e-003		73.9576
<b>Total</b>	<b>0.0406</b>	<b>0.0315</b>	<b>0.3046</b>	<b>7.4000e-004</b>	<b>0.0821</b>	<b>5.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>73.8958</b>	<b>73.8958</b>	<b>2.4700e-003</b>		<b>73.9576</b>

**3.6 Architectural Coating - 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					
Archit. Coating	13.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>13.4841</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.6 Architectural Coating - 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	0.0188	0.0145	0.1406	3.4000e-004	0.0708	2.4000e-004	0.0711	0.0181	2.2000e-004	0.0184		34.1057	34.1057	1.1400e-003		34.1343
<b>Total</b>	<b>0.0188</b>	<b>0.0145</b>	<b>0.1406</b>	<b>3.4000e-004</b>	<b>0.0708</b>	<b>2.4000e-004</b>	<b>0.0711</b>	<b>0.0181</b>	<b>2.2000e-004</b>	<b>0.0184</b>		<b>34.1057</b>	<b>34.1057</b>	<b>1.1400e-003</b>		<b>34.1343</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					
Archit. Coating	13.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>13.4841</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**3.6 Architectural Coating - 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	0.0188	0.0145	0.1406	3.4000e-004	0.0708	2.4000e-004	0.0711	0.0181	2.2000e-004	0.0184		34.1057	34.1057	1.1400e-003		34.1343
<b>Total</b>	<b>0.0188</b>	<b>0.0145</b>	<b>0.1406</b>	<b>3.4000e-004</b>	<b>0.0708</b>	<b>2.4000e-004</b>	<b>0.0711</b>	<b>0.0181</b>	<b>2.2000e-004</b>	<b>0.0184</b>		<b>34.1057</b>	<b>34.1057</b>	<b>1.1400e-003</b>		<b>34.1343</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	6.4000e-004	1.9700e-003	5.4700e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.2082	1.2082	7.0000e-005		1.2099
Unmitigated	6.4000e-004	1.9700e-003	5.4700e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.2082	1.2082	7.0000e-005		1.2099

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	0.35	0.35	0.35	474	474
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.35	0.35	0.35	474	474

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	6.60	5.50	6.40	75.00	20.00	5.00	50	34	16
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Other Asphalt Surfaces	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Parking Lot	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156

**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	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
NaturalGas Unmitigated	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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					
Government (Civic Center)	290.477	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0285</b>	<b>0.0239</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1737</b>	<b>34.1737</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3768</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					
Government (Civic Center)	0.290477	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0285</b>	<b>0.0239</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1737</b>	<b>34.1737</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3768</b>

**6.0 Area Detail**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**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	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Unmitigated	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125

**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	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.2000e-004	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
<b>Total</b>	<b>0.3400</b>	<b>5.0000e-005</b>	<b>5.5000e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0117</b>	<b>0.0117</b>	<b>3.0000e-005</b>		<b>0.0125</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.2000e-004	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
<b>Total</b>	<b>0.3400</b>	<b>5.0000e-005</b>	<b>5.5000e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0117</b>	<b>0.0117</b>	<b>3.0000e-005</b>		<b>0.0125</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Summer

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	108	200	0.73	Diesel

**Boilers**

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

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.6257</b>	<b>7.3388</b>	<b>6.6950</b>	<b>0.0126</b>		<b>0.3863</b>	<b>0.3863</b>		<b>0.3863</b>	<b>0.3863</b>		<b>1,343.2226</b>	<b>1,343.2226</b>	<b>0.1883</b>		<b>1,347.9306</b>

**11.0 Vegetation**

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Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**Goleta Fire Station 10**  
**Santa Barbara-South of Santa Ynez Range County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government (Civic Center)	11.60	1000sqft	0.27	11,600.00	0
Other Asphalt Surfaces	25.95	1000sqft	0.60	25,952.00	0
Parking Lot	16.00	Space	0.14	6,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.7	<b>Precipitation Freq (Days)</b>	37
<b>Climate Zone</b>	8			<b>Operational Year</b>	2020
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MW hr)</b>	702.44	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

## Project Characteristics - Project details

Land Use - Approximate acreage of parking spaces, paved asphalt areas, and building area. Note: total developed lot acreage does not equate to total site acreage, as some areas of the site would be unpaved or undeveloped.

Construction Phase - Estimated construction schedule based on 4 months for site prep and grading, and 12 months for construction

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT -

Demolition - 9,860 sf tennis court

Grading - Grading details from Project Description. 900 cy of import during grading

Architectural Coating -

Vehicle Trips - ATE Transportation Analysis Trip Rate: 29 ADT

Energy Use -

Construction Off-road Equipment Mitigation - No mitigation assumed in initial run

Mobile Land Use Mitigation -

Energy Mitigation - Project Description includes Energy Efficiency Improvements, but does not specify. Conservatively assuming no energy efficiency improvements as no definitive improvements have been identified

Water Mitigation - Water Conservation measures provided in Section 2.5.9(2) of the Project Description. "Water conservation strategies that reduce indoor and outdoor water use by 20 percent."

Stationary Sources - Emergency Generators and Fire Pumps - Proposed use of a standard emergency diesel generator. Hours/Year = default rate assumption (100 hours) plus operational assurance testing of the generator for 0.5 hour/month and one 2-hour test/year (8 total hours for testing)

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	22.00
tblConstructionPhase	NumDays	200.00	219.00
tblConstructionPhase	NumDays	4.00	43.00
tblConstructionPhase	NumDays	10.00	21.00
tblConstructionPhase	NumDays	2.00	43.00
tblGrading	AcresOfGrading	22.88	1.21
tblGrading	AcresOfGrading	30.50	1.21
tblGrading	MaterialImported	0.00	900.00
tblLandUse	LandUseSquareFeet	25,950.00	25,952.00
tblTripsAndVMT	HaulingTripNumber	113.00	112.00
tblVehicleTrips	ST_TR	0.00	0.03
tblVehicleTrips	SU_TR	0.00	0.03
tblVehicleTrips	WD_TR	27.92	0.03

## 2.0 Emissions Summary

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Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Energy	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Mobile	6.3000e-004	2.0400e-003	6.0200e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.1804	1.1804	7.0000e-005		1.1821
Stationary	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.9695</b>	<b>7.3693</b>	<b>6.7304</b>	<b>0.0128</b>	<b>1.0100e-003</b>	<b>0.3884</b>	<b>0.3895</b>	<b>2.7000e-004</b>	<b>0.3884</b>	<b>0.3887</b>		<b>1,378.5884</b>	<b>1,378.5884</b>	<b>0.1891</b>	<b>6.3000e-004</b>	<b>1,383.5020</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Energy	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Mobile	6.3000e-004	2.0400e-003	6.0200e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.1804	1.1804	7.0000e-005		1.1821
Stationary	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.9695</b>	<b>7.3693</b>	<b>6.7304</b>	<b>0.0128</b>	<b>1.0100e-003</b>	<b>0.3884</b>	<b>0.3895</b>	<b>2.7000e-004</b>	<b>0.3884</b>	<b>0.3887</b>		<b>1,378.5884</b>	<b>1,378.5884</b>	<b>0.1891</b>	<b>6.3000e-004</b>	<b>1,383.5020</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**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	6/1/2019	7/31/2019	5	43	
2	Grading	Grading	8/1/2019	9/30/2019	5	43	
3	Building Construction	Building Construction	10/1/2019	7/31/2020	5	219	
4	Paving	Paving	8/1/2020	8/31/2020	5	21	
5	Architectural Coating	Architectural Coating	9/1/2020	9/30/2020	5	22	

**Acres of Grading (Site Preparation Phase): 1.21**

**Acres of Grading (Grading Phase): 1.21**

**Acres of Paving: 0.74**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 17,400; Non-Residential Outdoor: 5,800; Striped Parking Area: 1,941 (Architectural Coating – sqft)**

**OffRoad Equipment**

## Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Rubber Tired Dozers	1	7.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	6.00	9	0.56
Paving	Pavers	1	6.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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
Site Preparation	3	8.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	112.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	17.00	7.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Paving	5	13.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	8.30	6.40	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

**3.2 Site Preparation - 2019**

**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					7.5049	0.0000	7.5049	4.1121	0.0000	4.1121			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118		1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>7.5049</b>	<b>0.8824</b>	<b>8.3873</b>	<b>4.1121</b>	<b>0.8118</b>	<b>4.9239</b>		<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.2 Site Preparation - 2019**

**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	0.0310	0.0252	0.2209	4.6000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		45.8341	45.8341	1.7800e-003		45.8787
<b>Total</b>	<b>0.0310</b>	<b>0.0252</b>	<b>0.2209</b>	<b>4.6000e-004</b>	<b>0.0505</b>	<b>3.3000e-004</b>	<b>0.0509</b>	<b>0.0134</b>	<b>3.1000e-004</b>	<b>0.0137</b>		<b>45.8341</b>	<b>45.8341</b>	<b>1.7800e-003</b>		<b>45.8787</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					7.5049	0.0000	7.5049	4.1121	0.0000	4.1121			0.0000			0.0000
Off-Road	1.7123	19.4821	7.8893	0.0172		0.8824	0.8824		0.8118	0.8118	0.0000	1,704.9189	1,704.9189	0.5394		1,718.4044
<b>Total</b>	<b>1.7123</b>	<b>19.4821</b>	<b>7.8893</b>	<b>0.0172</b>	<b>7.5049</b>	<b>0.8824</b>	<b>8.3873</b>	<b>4.1121</b>	<b>0.8118</b>	<b>4.9239</b>	<b>0.0000</b>	<b>1,704.9189</b>	<b>1,704.9189</b>	<b>0.5394</b>		<b>1,718.4044</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.2 Site Preparation - 2019**

**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	0.0310	0.0252	0.2209	4.6000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		45.8341	45.8341	1.7800e-003		45.8787
<b>Total</b>	<b>0.0310</b>	<b>0.0252</b>	<b>0.2209</b>	<b>4.6000e-004</b>	<b>0.0505</b>	<b>3.3000e-004</b>	<b>0.0509</b>	<b>0.0134</b>	<b>3.1000e-004</b>	<b>0.0137</b>		<b>45.8341</b>	<b>45.8341</b>	<b>1.7800e-003</b>		<b>45.8787</b>

**3.3 Grading - 2019**

**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					6.4402	0.0000	6.4402	3.5256	0.0000	3.5256			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775		1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>6.4402</b>	<b>0.7365</b>	<b>7.1766</b>	<b>3.5256</b>	<b>0.6775</b>	<b>4.2032</b>		<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.3 Grading - 2019**

**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	0.0256	0.8557	0.2568	2.0300e-003	0.0453	4.7900e-003	0.0501	0.0124	4.5900e-003	0.0170		225.4423	225.4423	0.0203		225.9502
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	0.0310	0.0252	0.2209	4.6000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		45.8341	45.8341	1.7800e-003		45.8787
<b>Total</b>	<b>0.0566</b>	<b>0.8810</b>	<b>0.4777</b>	<b>2.4900e-003</b>	<b>0.0958</b>	<b>5.1200e-003</b>	<b>0.1009</b>	<b>0.0258</b>	<b>4.9000e-003</b>	<b>0.0307</b>		<b>271.2765</b>	<b>271.2765</b>	<b>0.0221</b>		<b>271.8289</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					6.4402	0.0000	6.4402	3.5256	0.0000	3.5256			0.0000			0.0000
Off-Road	1.4197	16.0357	6.6065	0.0141		0.7365	0.7365		0.6775	0.6775	0.0000	1,396.3909	1,396.3909	0.4418		1,407.4359
<b>Total</b>	<b>1.4197</b>	<b>16.0357</b>	<b>6.6065</b>	<b>0.0141</b>	<b>6.4402</b>	<b>0.7365</b>	<b>7.1766</b>	<b>3.5256</b>	<b>0.6775</b>	<b>4.2032</b>	<b>0.0000</b>	<b>1,396.3909</b>	<b>1,396.3909</b>	<b>0.4418</b>		<b>1,407.4359</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.3 Grading - 2019**

**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	0.0256	0.8557	0.2568	2.0300e-003	0.0453	4.7900e-003	0.0501	0.0124	4.5900e-003	0.0170		225.4423	225.4423	0.0203		225.9502
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	0.0310	0.0252	0.2209	4.6000e-004	0.0505	3.3000e-004	0.0509	0.0134	3.1000e-004	0.0137		45.8341	45.8341	1.7800e-003		45.8787
<b>Total</b>	<b>0.0566</b>	<b>0.8810</b>	<b>0.4777</b>	<b>2.4900e-003</b>	<b>0.0958</b>	<b>5.1200e-003</b>	<b>0.1009</b>	<b>0.0258</b>	<b>4.9000e-003</b>	<b>0.0307</b>		<b>271.2765</b>	<b>271.2765</b>	<b>0.0221</b>		<b>271.8289</b>

**3.4 Building Construction - 2019**

**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	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846		2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>		<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.4 Building Construction - 2019**

**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	0.0360	0.8375	0.3214	1.6500e-003	0.0415	6.7100e-003	0.0482	0.0119	6.4100e-003	0.0183		178.5159	178.5159	0.0142		178.8710
Worker	0.0659	0.0536	0.4693	9.8000e-004	0.1074	7.1000e-004	0.1081	0.0285	6.5000e-004	0.0291		97.3975	97.3975	3.7900e-003		97.4923
<b>Total</b>	<b>0.1019</b>	<b>0.8911</b>	<b>0.7908</b>	<b>2.6300e-003</b>	<b>0.1488</b>	<b>7.4200e-003</b>	<b>0.1562</b>	<b>0.0404</b>	<b>7.0600e-003</b>	<b>0.0475</b>		<b>275.9135</b>	<b>275.9135</b>	<b>0.0180</b>		<b>276.3633</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					
Off-Road	2.2721	15.9802	13.4870	0.0220		0.9158	0.9158		0.8846	0.8846	0.0000	2,018.0224	2,018.0224	0.3879		2,027.7210
<b>Total</b>	<b>2.2721</b>	<b>15.9802</b>	<b>13.4870</b>	<b>0.0220</b>		<b>0.9158</b>	<b>0.9158</b>		<b>0.8846</b>	<b>0.8846</b>	<b>0.0000</b>	<b>2,018.0224</b>	<b>2,018.0224</b>	<b>0.3879</b>		<b>2,027.7210</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.4 Building Construction - 2019**

**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	0.0360	0.8375	0.3214	1.6500e-003	0.0415	6.7100e-003	0.0482	0.0119	6.4100e-003	0.0183		178.5159	178.5159	0.0142		178.8710
Worker	0.0659	0.0536	0.4693	9.8000e-004	0.1074	7.1000e-004	0.1081	0.0285	6.5000e-004	0.0291		97.3975	97.3975	3.7900e-003		97.4923
<b>Total</b>	<b>0.1019</b>	<b>0.8911</b>	<b>0.7908</b>	<b>2.6300e-003</b>	<b>0.1488</b>	<b>7.4200e-003</b>	<b>0.1562</b>	<b>0.0404</b>	<b>7.0600e-003</b>	<b>0.0475</b>		<b>275.9135</b>	<b>275.9135</b>	<b>0.0180</b>		<b>276.3633</b>

**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	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688		2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>		<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.4 Building Construction - 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	0.0289	0.7651	0.2836	1.6300e-003	0.0415	4.2500e-003	0.0457	0.0119	4.0600e-003	0.0160		177.5251	177.5251	0.0139		177.8733
Worker	0.0599	0.0471	0.4138	9.5000e-004	0.1074	6.8000e-004	0.1081	0.0285	6.3000e-004	0.0291		94.3981	94.3981	3.2500e-003		94.4793
<b>Total</b>	<b>0.0889</b>	<b>0.8122</b>	<b>0.6974</b>	<b>2.5800e-003</b>	<b>0.1488</b>	<b>4.9300e-003</b>	<b>0.1538</b>	<b>0.0404</b>	<b>4.6900e-003</b>	<b>0.0451</b>		<b>271.9232</b>	<b>271.9232</b>	<b>0.0172</b>		<b>272.3526</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					
Off-Road	2.0305	14.7882	13.1881	0.0220		0.7960	0.7960		0.7688	0.7688	0.0000	2,001.1595	2,001.1595	0.3715		2,010.4467
<b>Total</b>	<b>2.0305</b>	<b>14.7882</b>	<b>13.1881</b>	<b>0.0220</b>		<b>0.7960</b>	<b>0.7960</b>		<b>0.7688</b>	<b>0.7688</b>	<b>0.0000</b>	<b>2,001.1595</b>	<b>2,001.1595</b>	<b>0.3715</b>		<b>2,010.4467</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.4 Building Construction - 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	0.0289	0.7651	0.2836	1.6300e-003	0.0415	4.2500e-003	0.0457	0.0119	4.0600e-003	0.0160		177.5251	177.5251	0.0139		177.8733
Worker	0.0599	0.0471	0.4138	9.5000e-004	0.1074	6.8000e-004	0.1081	0.0285	6.3000e-004	0.0291		94.3981	94.3981	3.2500e-003		94.4793
<b>Total</b>	<b>0.0889</b>	<b>0.8122</b>	<b>0.6974</b>	<b>2.5800e-003</b>	<b>0.1488</b>	<b>4.9300e-003</b>	<b>0.1538</b>	<b>0.0404</b>	<b>4.6900e-003</b>	<b>0.0451</b>		<b>271.9232</b>	<b>271.9232</b>	<b>0.0172</b>		<b>272.3526</b>

**3.5 Paving - 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	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328		1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9325</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>		<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Paving - 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	0.0458	0.0360	0.3164	7.3000e-004	0.0821	5.2000e-004	0.0826	0.0218	4.8000e-004	0.0223		72.1868	72.1868	2.4800e-003		72.2489
<b>Total</b>	<b>0.0458</b>	<b>0.0360</b>	<b>0.3164</b>	<b>7.3000e-004</b>	<b>0.0821</b>	<b>5.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>72.1868</b>	<b>72.1868</b>	<b>2.4800e-003</b>		<b>72.2489</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					
Off-Road	0.8402	8.4514	8.8758	0.0135		0.4695	0.4695		0.4328	0.4328	0.0000	1,296.9461	1,296.9461	0.4111		1,307.2246
Paving	0.0923					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.9325</b>	<b>8.4514</b>	<b>8.8758</b>	<b>0.0135</b>		<b>0.4695</b>	<b>0.4695</b>		<b>0.4328</b>	<b>0.4328</b>	<b>0.0000</b>	<b>1,296.9461</b>	<b>1,296.9461</b>	<b>0.4111</b>		<b>1,307.2246</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.5 Paving - 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	0.0458	0.0360	0.3164	7.3000e-004	0.0821	5.2000e-004	0.0826	0.0218	4.8000e-004	0.0223		72.1868	72.1868	2.4800e-003		72.2489
<b>Total</b>	<b>0.0458</b>	<b>0.0360</b>	<b>0.3164</b>	<b>7.3000e-004</b>	<b>0.0821</b>	<b>5.2000e-004</b>	<b>0.0826</b>	<b>0.0218</b>	<b>4.8000e-004</b>	<b>0.0223</b>		<b>72.1868</b>	<b>72.1868</b>	<b>2.4800e-003</b>		<b>72.2489</b>

**3.6 Architectural Coating - 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					
Archit. Coating	13.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>13.4841</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>



Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.6 Architectural Coating - 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	0.0212	0.0166	0.1460	3.3000e-004	0.0708	2.4000e-004	0.0711	0.0181	2.2000e-004	0.0184		33.3170	33.3170	1.1500e-003		33.3456
<b>Total</b>	<b>0.0212</b>	<b>0.0166</b>	<b>0.1460</b>	<b>3.3000e-004</b>	<b>0.0708</b>	<b>2.4000e-004</b>	<b>0.0711</b>	<b>0.0181</b>	<b>2.2000e-004</b>	<b>0.0184</b>		<b>33.3170</b>	<b>33.3170</b>	<b>1.1500e-003</b>		<b>33.3456</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					
Archit. Coating	13.2419					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
<b>Total</b>	<b>13.4841</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**3.6 Architectural Coating - 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	0.0212	0.0166	0.1460	3.3000e-004	0.0708	2.4000e-004	0.0711	0.0181	2.2000e-004	0.0184		33.3170	33.3170	1.1500e-003		33.3456
<b>Total</b>	<b>0.0212</b>	<b>0.0166</b>	<b>0.1460</b>	<b>3.3000e-004</b>	<b>0.0708</b>	<b>2.4000e-004</b>	<b>0.0711</b>	<b>0.0181</b>	<b>2.2000e-004</b>	<b>0.0184</b>		<b>33.3170</b>	<b>33.3170</b>	<b>1.1500e-003</b>		<b>33.3456</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	6.3000e-004	2.0400e-003	6.0200e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.1804	1.1804	7.0000e-005		1.1821
Unmitigated	6.3000e-004	2.0400e-003	6.0200e-003	1.0000e-005	1.0100e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004		1.1804	1.1804	7.0000e-005		1.1821

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	0.35	0.35	0.35	474	474
Other Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	0.35	0.35	0.35	474	474

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Government (Civic Center)	6.60	5.50	6.40	75.00	20.00	5.00	50	34	16
Other Asphalt Surfaces	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0
Parking Lot	6.60	5.50	6.40	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government (Civic Center)	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Other Asphalt Surfaces	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156
Parking Lot	0.553205	0.030828	0.204091	0.129951	0.023898	0.006086	0.017139	0.018453	0.002761	0.002481	0.007244	0.002707	0.001156

**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	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
NaturalGas Unmitigated	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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					
Government (Civic Center)	290.477	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0285</b>	<b>0.0239</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1737</b>	<b>34.1737</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3768</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					
Government (Civic Center)	0.290477	3.1300e-003	0.0285	0.0239	1.7000e-004		2.1600e-003	2.1600e-003		2.1600e-003	2.1600e-003		34.1737	34.1737	6.5000e-004	6.3000e-004	34.3768
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>3.1300e-003</b>	<b>0.0285</b>	<b>0.0239</b>	<b>1.7000e-004</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>2.1600e-003</b>	<b>2.1600e-003</b>		<b>34.1737</b>	<b>34.1737</b>	<b>6.5000e-004</b>	<b>6.3000e-004</b>	<b>34.3768</b>

**6.0 Area Detail**

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**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	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
Unmitigated	0.3400	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125

**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	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.2000e-004	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
<b>Total</b>	<b>0.3400</b>	<b>5.0000e-005</b>	<b>5.5000e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0117</b>	<b>0.0117</b>	<b>3.0000e-005</b>		<b>0.0125</b>

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, 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	0.0798					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2597					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.2000e-004	5.0000e-005	5.5000e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005		0.0117	0.0117	3.0000e-005		0.0125
<b>Total</b>	<b>0.3400</b>	<b>5.0000e-005</b>	<b>5.5000e-003</b>	<b>0.0000</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>2.0000e-005</b>	<b>2.0000e-005</b>		<b>0.0117</b>	<b>0.0117</b>	<b>3.0000e-005</b>		<b>0.0125</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Apply Water Conservation Strategy

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

Goleta Fire Station 10 - Santa Barbara-South of Santa Ynez Range County, Winter

**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	8	108	200	0.73	Diesel

**Boilers**

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

Equipment Type	Number
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**10.1 Stationary Sources**

**Unmitigated/Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (175 - 300 HP)	2.6257	7.3388	6.6950	0.0126		0.3863	0.3863		0.3863	0.3863		1,343.2226	1,343.2226	0.1883		1,347.9306
<b>Total</b>	<b>2.6257</b>	<b>7.3388</b>	<b>6.6950</b>	<b>0.0126</b>		<b>0.3863</b>	<b>0.3863</b>		<b>0.3863</b>	<b>0.3863</b>		<b>1,343.2226</b>	<b>1,343.2226</b>	<b>0.1883</b>		<b>1,347.9306</b>

**11.0 Vegetation**

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