

**APPENDIX Q**  
**ENERGY DEMAND CALCULATION WORKSHEETS**

**2800 Casitas Avenue Project Construction Energy Demand Calculations**

**Total Diesel Usage From Construction Equipment**

Phase	Off-Road Equipment Type	Units	Hours	HP	Load Factor	Ave. Daily Factor	Number of Days	Diesel Usage (gallons)
Demolition	Concrete/Industrial Saws	1	8	81	0.73	0.6	22	312
Demolition	Excavator	3	8	158	0.38	0.6	22	951
Demolition	Rubber Tired Dozer	2	8	247	0.4	0.6	22	1043
Site Preparation	Concrete/Industrial Saws	1	8	81	0.73	0.6	22	312
Site Preparation	Excavator	1	8	158	0.38	0.6	22	317
Site Preparation	Rubber Tired Dozer	3	8	247	0.4	0.6	22	1565
Site Preparation	Tractor/Loader/Backhoe	4	8	97	0.37	0.6	22	758
Grading	Excavator	1	8	158	0.38	0.6	44	634
Grading	Rubber Tired Dozer	1	8	247	0.4	0.6	44	1043
Grading	Tractor/Loader/Backhoe	3	8	97	0.37	0.6	44	1137
Grading	Grader	1	8	187	0.41	0.6	44	810
Building Construction	Aerial Lifts	1	8	63	0.31	0.6	434	2034
Building Construction	Air Compressors	2	8	78	0.48	0.6	434	7800
Building Construction	Cranes	1	7	231	0.29	0.6	434	6105
Building Construction	Forklifts	3	8	89	0.2	0.6	434	5562
Building Construction	Tractor/Loader/Backhoe	3	7	97	0.37	0.6	434	9813
Building Construction	Generator Sets	1	8	84	0.74	0.6	434	6475
Building Construction	Cement and Mortar Mixers	1	8	9	0.56	0.6	434	525
Building Construction	Pumps	1	8	84	0.74	0.6	434	6475
Building Construction	Welders	1	8	46	0.45	0.6	434	2156
Paving	Pavers	2	8	130	0.42	0.6	44	1153
Paving	Rollers	2	8	80	0.38	0.6	44	642
Paving	Paving Equipment	2	8	132	0.36	0.6	44	1004
Architectural Coating	Air Compressors	6	6	78	0.48	0.6	88	3558
Architectural Coating	Aerial Lifts	2	8	63	0.31	0.6	88	825
							<b>TOTAL</b>	<b>63,009</b>

Sources: Equipment usage (hours and total days), horsepower (HP) and load factors are per the CalEEMod Worksheets; Fuel rate calculation is per the SCAQMD Air Quality Handbook (1993).

**Electricity Usage from Watering During Construction (AQMD Rule 403: Fugitive Dust)**

Phase	Watering Days	Ave. Daily Acreage Disturbed	Water Use (gallons)	Electricity (kWhr)
Demolition	22	5	332,200	3,231.31
Site Preparation	22	5	332,200	3,231.31
Grading	44	5	664,400	6,462.62
		<b>TOTAL</b>	<b>1,328,800</b>	<b>12,925.24</b>

Notes:

1. Water Application Rate= 3,020 gal/acre/day per Air & Waste Management Association Air Pollution Engineering Manual (1992 Edition).
2. Electricity consumption per water usage = 0.009727 kWhr/gallon.

**Construction Worker and Vendor Gasoline Consumption**

Phase	Daily Trips			Total Trips		Trip Length		Gasoline Usage (gallons)	Diesel Usage (gallons)
	Worker	Vendor	Days	Worker	Vendor	Worker	Vendor		
	Demolition	15	0	22	330	0	14.7		
Site Preparation	23	0	22	506	0	14.7	6.9	304	14
Grading	15	0	44	660	0	14.7	6.9	397	18
Building Construction	448	102	434	194432	44268	14.7	6.9	129,420	5,874
Paving	15	0	44	660	0	14.7	6.9	397	18
Architectural Coating	90	0	88	7920	0				
<b>TOTAL</b>			<b>654</b>	<b>204508</b>	<b>44268</b>			<b>130,717</b>	<b>5,933</b>

Notes: Assumes an average fuel efficiency of 23.1 miles per gallon (mpg) for gasoline and 29.62 mpg for diesel per EMFAC 2014, Los Angeles Region in 2020. Fleet average was assumed to be 94.5 percent gas and 5.5 percent diesel vehicles.

**Haul Truck Diesel Consumption**

Phase	Total Haul Trips (One Way Trips)	Trip Length	VMTs	Diesel Usage (gallons)
Demolition	532	23	12,236	2,135
Site Preparation	297	23	6,831	1,192
Grading	2857	23	65,711	11,468
			<b>84,778</b>	<b>14,795</b>

Notes: Assumes an average fuel efficiency of 5.73 miles per gallon (mpg) for diesel fuel use per EMFAC 2014 average fuel efficiency for T7 aggregated public and single fleet haul trucks.

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: County

Region: Los Angeles

Calendar Year: 2020

Season: Annual

Scenario: Construction

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdYr	Speed (miles/hr)	Fuel	Population (vehicles)	VMT (miles/day)	Trips (trips/day)	Fuel_Consumption 1,000 gallons/day		Mileage miles per gallon (mpg)	
									Gas	Diesel	Gas	Diesel
Los Angeles	2020	LDA	Aggregated	Aggregated	GAS	3698702.35	126757061	23300177.1	4742.63294		26.73	
Los Angeles	2020	LDA	Aggregated	Aggregated	DSL	34095.2298	1250360.96	211350.408		34.7911158		35.94
Los Angeles	2020	LDT1	Aggregated	Aggregated	GAS	323942.411	10911874.2	1968189.45	484.851501		22.51	
Los Angeles	2020	LDT1	Aggregated	Aggregated	DSL	442.902037	12290.6335	2311.45329		0.48123731		25.54
Los Angeles	2020	LDT2	Aggregated	Aggregated	GAS	1331412.96	48391682.2	8429252.55	2412.27326		20.06	
Los Angeles	2020	LDT2	Aggregated	Aggregated	DSL	2301.81794	89536.0073	14840.7118	3.26823097			27.40
											23.10	29.62
Los Angeles	2020	T7 Public	Aggregated	Aggregated	DSL	4789.07	109750.92	0	22.0570069			4.98
Los Angeles	2020	T7 Single	Aggregated	Aggregated	DSL	4988.30	494896.42	0	83.4765665			5.93
						9777.37	604647.34		105.533573			5.73

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2016

Season: Annual

Scenario: 2016 Baseline Conditions

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption		
South Coast	2018	All Other Bus	Aggregated	Aggregated	DSL	3695.81	251528.19	0	30.00283524		
South Coast	2018	LDA	Aggregated	Aggregated	GAS	5902290.60	207297399.59	37196281.8	7958.701801		
South Coast	2018	LDA	Aggregated	Aggregated	DSL	48393.15	1855377.91	299156.401	53.11975439		
South Coast	2018	LDA	Aggregated	Aggregated	ELEC	62927.98	2972576.75	409740.711	0		
South Coast	2018	LDT1	Aggregated	Aggregated	GAS	511327.23	17356141.55	3102010.45	786.3689689		
South Coast	2018	LDT1	Aggregated	Aggregated	DSL	695.56	18701.99	3594.65896	0.734235859		
South Coast	2018	LDT1	Aggregated	Aggregated	ELEC	428.59	13476.73	2594.39383	0		
South Coast	2018	LDT2	Aggregated	Aggregated	GAS	2046914.57	77072757.43	12925441	3952.17611		
South Coast	2018	LDT2	Aggregated	Aggregated	DSL	2951.97	126794.43	19063.3622	4.68152517		
South Coast	2018	LHD1	Aggregated	Aggregated	GAS	131839.06	3943593.65	1964205.54	363.590429		
South Coast	2018	LHD1	Aggregated	Aggregated	DSL	85543.42	3142729.43	1076028.66	157.5162719		
South Coast	2018	LHD2	Aggregated	Aggregated	GAS	25272.38	883276.34	376520.74	88.10823494		
South Coast	2018	LHD2	Aggregated	Aggregated	DSL	34688.72	1396295.16	436340.403	76.69845534		
South Coast	2018	MCY	Aggregated	Aggregated	GAS	262651.26	1786186.34	525249.991	50.73800603		
South Coast	2018	MDV	Aggregated	Aggregated	GAS	1433228.39	48439048.93	892825.11	3318.001467		
South Coast	2018	MDV	Aggregated	Aggregated	DSL	17593.61	726780.42	113083.95	34.85621049		
South Coast	2018	MH	Aggregated	Aggregated	GAS	38589.44	315292.58	3860.48719	43.35592461		
South Coast	2018	MH	Aggregated	Aggregated	DSL	9464.41	82431.71	946.441433	8.123938437		
South Coast	2018	Motor Coach	Aggregated	Aggregated	DSL	941.38	140514.81	0	24.93107898		
South Coast	2018	OBUS	Aggregated	Aggregated	GAS	7762.13	364687.88	155304.598	51.81176073		
South Coast	2018	PTO	Aggregated	Aggregated	DSL	0.00	199794.65	0	42.27672831		
South Coast	2018	SBUS	Aggregated	Aggregated	GAS	1968.22	75638.53	7872.87903	6.723769688		
South Coast	2018	SBUS	Aggregated	Aggregated	DSL	5119.65	196152.01	0	27.31414774		
South Coast	2018	T6 Ag	Aggregated	Aggregated	DSL	242.18	4447.00	0	0.532800373		
South Coast	2018	T6 CAIRP heavy	Aggregated	Aggregated	DSL	188.40	10320.64	0	1.183369565		
South Coast	2018	T6 CAIRP small	Aggregated	Aggregated	DSL	491.47	31681.83	0	3.647458145		
South Coast	2018	T6 instate commercial	Aggregated	Aggregated	DSL	2882.54	203843.71	0	23.67323611		
South Coast	2018	T6 instate commercial	Aggregated	Aggregated	DSL	9458.81	547603.83	0	63.49731991		
South Coast	2018	T6 instate heavy	Aggregated	Aggregated	DSL	30112.08	1610714.76	0	185.9294559		
South Coast	2018	T6 instate small	Aggregated	Aggregated	DSL	70421.29	4132019.59	0	477.9609507		
South Coast	2018	T6 OOS heavy	Aggregated	Aggregated	DSL	111.81	5913.34	0	0.678603189		
South Coast	2018	T6 OOS small	Aggregated	Aggregated	DSL	281.59	18152.50	0	2.08985644		
South Coast	2018	T6 Public	Aggregated	Aggregated	DSL	5845.01	93753.47	0	11.18251007		
South Coast	2018	T6 utility	Aggregated	Aggregated	DSL	1362.35	26654.22	0	3.233639755		
South Coast	2018	T6T5	Aggregated	Aggregated	GAS	19053.19	942543.49	381216.154	137.6580612		
South Coast	2018	T7 Ag	Aggregated	Aggregated	DSL	194.59	3307.92	0	0.615038283		
South Coast	2018	T7 CAIRP	Aggregated	Aggregated	DSL	7623.97	1578774.71	0	271.3476489		
South Coast	2018	T7 CAIRP commercial	Aggregated	Aggregated	DSL	615.54	144605.18	0	24.98361815		
South Coast	2018	T7 NNOOS	Aggregated	Aggregated	DSL	7933.70	1957682.61	0	315.8374219		
South Coast	2018	T7 NOOS	Aggregated	Aggregated	DSL	3093.71	623615.55	0	109.4262124		
South Coast	2018	T7 POLA	Aggregated	Aggregated	DSL	13381.74	1927641.62	0	348.7745973		
South Coast	2018	T7 Public	Aggregated	Aggregated	DSL	7079.59	162250.59	0	33.13039052		
South Coast	2018	T7 Single	Aggregated	Aggregated	DSL	10350.41	1006205.81	0	167.9749193		
South Coast	2018	T7 single commercial	Aggregated	Aggregated	DSL	4094.84	374074.57	0	62.35092298		
South Coast	2018	T7 SWCV	Aggregated	Aggregated	DSL	6644.99	306070.95	0	126.2268791		
South Coast	2018	T7 tractor	Aggregated	Aggregated	DSL	15634.01	2241927.56	0	366.5921883		
South Coast	2018	T7 tractor commercial	Aggregated	Aggregated	DSL	3180.25	278900.24	0	46.95465586		
South Coast	2018	T7 utility	Aggregated	Aggregated	DSL	597.89	13692.39	0	2.6493173		
South Coast	2018	T7IS	Aggregated	Aggregated	GAS	750.00	94681.82	15005.9519	20.74751376		
South Coast	2018	UBUS	Aggregated	Aggregated	GAS	2129.79	246271.83	8519.15039	49.92921528		
South Coast	2018	UBUS	Aggregated	Aggregated	DSL	4889.76	568097.42	19559.0259	121.3934272		
							387812626.15		20060032.88		
							VMT	Fleet %	Fuel_Consumption	MPG	
							GAS	358817519.96	0.92523424	16827.91	21.32
							DSL	26009052.71	0.06706603	3232.12	8.05
							ELEC	2986053.48	0.00769973	0.00	

Existing Use Existing VMT  
General Light Industry 1,471,428

Fleet Mix	Project VMT (Annual)										Project Fuel Use (Annual)				
	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH		
	0.542123	0.045435	0.198009	0.129481	0.019131	0.005886	0.019249	0.030178	0.00192	0.002234	0.004581	0.000701	0.001073		
GAS	779,539.49	66,730.61	290,877.46	187,705.63	15,665.63	3,355.85			2,825.142	994.07	6,740.612	287.06	1,251.61	1,355,973	63,601
DSL	6,977.13	71.91	478.53	2,816.34	12,484.26	5,304.97	28,323.518	44,404.754		2,293.10		744.42	327.23	104,226	12,947
ELEC	11,178.34	51.82												11,230	0
<b>TOTAL</b>	<b>797,694.962</b>	<b>66,854.331</b>	<b>291,355.987</b>	<b>190,521.969</b>	<b>28,149.889</b>	<b>8,660.825</b>	<b>28,323.518</b>	<b>44,404.754</b>	<b>2,825.142</b>	<b>3,287.170</b>	<b>6,740.612</b>	<b>1,031.471</b>	<b>1,578.842</b>	<b>1,471,429</b>	<b>76,548</b>

EMFAC2014 (v1.0.7) Emissions Inventory

Region Type: Air Basin

Region: South Coast

Calendar Year: 2023

Season: Annual

Scenario: 2023 Project Buildout

Vehicle Classification: EMFAC2011 Categories

Units: miles/day for VMT, trips/day for Trips, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Trips	Fuel_Consumption		
South Coast	2023	All Other Buse	Aggregated	Aggregated	DSL	4513.7886	305619.1663	0	35.29695575		
South Coast	2023	LDA	Aggregated	Aggregated	GAS	6264982.162	209913843.8	39567465.25	6950.725188		
South Coast	2023	LDA	Aggregated	Aggregated	DSL	68231.27637	2395771.457	427576.5978	59.47674109		
South Coast	2023	LDA	Aggregated	Aggregated	ELEC	309061.0486	13422075.82	2011962.526	0		
South Coast	2023	LDT1	Aggregated	Aggregated	GAS	524963.8244	17443322.44	3198449.417	685.9808977		
South Coast	2023	LDT1	Aggregated	Aggregated	DSL	566.9173436	15079.56095	2949.350952	0.530284268		
South Coast	2023	LDT1	Aggregated	Aggregated	ELEC	344.4233489	10618.35479	2076.608731	0		
South Coast	2023	LDT2	Aggregated	Aggregated	GAS	2280873.153	82643235.78	14458786.03	3602.056455		
South Coast	2023	LDT2	Aggregated	Aggregated	DSL	4457.653359	169032.7022	28615.43743	5.518573443		
South Coast	2023	LHD1	Aggregated	Aggregated	GAS	101835.8468	2836538.916	1517202.381	256.8877602		
South Coast	2023	LHD1	Aggregated	Aggregated	DSL	96131.43835	3321303.353	1209212.561	158.9216856		
South Coast	2023	LHD2	Aggregated	Aggregated	GAS	23131.97299	792817.5726	344631.9309	76.60380604		
South Coast	2023	LHD2	Aggregated	Aggregated	DSL	42055.04677	1595083.718	528999.5832	83.03195225		
South Coast	2023	MCY	Aggregated	Aggregated	GAS	308501.6471	1969480.034	616941.5939	56.14954463		
South Coast	2023	MDV	Aggregated	Aggregated	GAS	1435217.687	46739844.42	8932873.614	2782.188459		
South Coast	2023	MDV	Aggregated	Aggregated	DSL	27835.2241	1018901.6	178160.7584	43.0452531		
South Coast	2023	MH	Aggregated	Aggregated	GAS	34406.25237	277627.0723	3442.001487	37.20200301		
South Coast	2023	MH	Aggregated	Aggregated	DSL	9347.502709	77260.38527	934.7502709	7.498703852		
South Coast	2023	Motor Coach	Aggregated	Aggregated	DSL	1097.30071	165059.5225	0	27.53499712		
South Coast	2023	OBUS	Aggregated	Aggregated	GAS	8907.143282	391252.705	178214.1228	53.8881013		
South Coast	2023	PTO	Aggregated	Aggregated	DSL	0	242195.0827	0	46.00544913		
South Coast	2023	SBUS	Aggregated	Aggregated	GAS	2552.0065	93077.74203	10208.026	8.137394815		
South Coast	2023	SBUS	Aggregated	Aggregated	DSL	5195.766705	196760.975	0	27.05793221		
South Coast	2023	T6 Ag	Aggregated	Aggregated	DSL	261.6308972	4446.995332	0	0.545592163		
South Coast	2023	T6 CAIRP heavy	Aggregated	Aggregated	DSL	225.299411	12123.42222	0	1.335901266		
South Coast	2023	T6 CAIRP small	Aggregated	Aggregated	DSL	567.3785774	37215.91408	0	4.154101553		
South Coast	2023	T6 instate cons	Aggregated	Aggregated	DSL	2992.489248	227086.5907	0	26.06179031		
South Coast	2023	T6 instate cons	Aggregated	Aggregated	DSL	10341.27895	610043.2762	0	68.91411535		
South Coast	2023	T6 instate heav	Aggregated	Aggregated	DSL	38285.77793	1951545.774	0	219.1459513		
South Coast	2023	T6 instate sma	Aggregated	Aggregated	DSL	80739.98835	4937365.334	0	558.501953		
South Coast	2023	T6 OOS heavy	Aggregated	Aggregated	DSL	131.1043729	6946.265317	0	0.765707896		
South Coast	2023	T6 OOS small	Aggregated	Aggregated	DSL	325.0866019	21323.32013	0	2.380144072		
South Coast	2023	T6 Public	Aggregated	Aggregated	DSL	5771.868788	94698.12086	0	11.09543048		
South Coast	2023	T6 utility	Aggregated	Aggregated	DSL	1486.470044	28090.43785	0	3.279578706		
South Coast	2023	T6TS	Aggregated	Aggregated	GAS	19258.49869	928087.5087	385324.0418	130.9319991		
South Coast	2023	T7 Ag	Aggregated	Aggregated	DSL	192.2313638	3307.923851	0	0.63795493		
South Coast	2023	T7 CAIRP	Aggregated	Aggregated	DSL	7976.474857	1854550.368	0	288.4647603		
South Coast	2023	T7 CAIRP const	Aggregated	Aggregated	DSL	666.3811328	161093.497	0	25.2683836		
South Coast	2023	T7 NNOOS	Aggregated	Aggregated	DSL	8792.570055	2299644.764	0	348.5758836		
South Coast	2023	T7 NOOS	Aggregated	Aggregated	DSL	3202.310481	732546.8486	0	116.1517944		
South Coast	2023	T7 POLA	Aggregated	Aggregated	DSL	15312.9378	2517620.159	0	410.5630478		
South Coast	2023	T7 Public	Aggregated	Aggregated	DSL	7375.42018	169060.3715	0	33.09152256		
South Coast	2023	T7 Single	Aggregated	Aggregated	DSL	11203.09643	1219742.847	0	187.8261989		
South Coast	2023	T7 single const	Aggregated	Aggregated	DSL	4295.696805	416727.6812	0	64.57042428		
South Coast	2023	T7 SWCV	Aggregated	Aggregated	DSL	7117.749209	327846.9493	0	122.7443479		
South Coast	2023	T7 tractor	Aggregated	Aggregated	DSL	19319.4368	2655028.377	0	394.9814255		
South Coast	2023	T7 tractor cons	Aggregated	Aggregated	DSL	3462.268354	310701.2867	0	48.42664048		
South Coast	2023	T7 utility	Aggregated	Aggregated	DSL	631.4441606	14430.17436	0	2.68892106		
South Coast	2023	T7IS	Aggregated	Aggregated	GAS	845.2225886	107869.2013	16911.21355	22.32171747		
South Coast	2023	UBUS	Aggregated	Aggregated	GAS	2458.623246	269036.4331	9834.492986	53.0431744		
South Coast	2023	UBUS	Aggregated	Aggregated	DSL	4123.341928	453343.6808	16493.36771	92.69912806		
							408407325.74		18242905.73		
							<b>VMT</b>	<b>Fleet %</b>	<b>Fuel_Consumptio</b>	<b>MPG</b>	
							<b>GAS</b>	364406033.67	0.892261257	14716.12	24.76
							<b>DSL</b>	30568597.90	0.074848309	3526.79	8.67
							<b>ELEC</b>	13432694.17	0.032890434	0.00	0

Fleet Mix	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	Project VMT (Annual)	Project Fuel Use (Annual)
<b>GAS</b>	4,932,171.46	410,021.47	1,947,839.38	1,127,105.50	66,777.34	18,644.92	209,193.137	336,777.909	20,467.166	6,391.06	47,007.961	2,198.14	6,546.34	8,585,171	346,702
<b>DSL</b>	56,291.45	354.46	3,983.97	24,570.25	78,189.58	37,512.05				10,769.35		4,646.74	1,821.77	764,111	88,158
<b>ELEC</b>	315,367.38	249.59												315,617	0
<b>TOTAL</b>	5303830.29	410625.53	1951823.35	1151675.75	144966.92	56156.97	209193.14	336777.91	20467.17	17160.41	47007.96	6844.88	8368.11	<b>9,664,898</b>	<b>434,860</b>

Construction Trailer (Temp) - South Coast AQMD Air District, Annual

**Construction Trailer (Temp)**  
**South Coast AQMD Air District, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	1.00	1000sqft	0.02	1,000.00	20

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	31
<b>Climate Zone</b>	11			<b>Operational Year</b>	2020
<b>Utility Company</b>	Los Angeles Department of Water & Power				
<b>CO2 Intensity (lb/MWhr)</b>	1227.89	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

Project Characteristics - Temporary Construction Trailer/Management Office

Land Use - This run to estimate electricity use for portable office trailer during construction. Assumes a 1,000 sf construction office trailer

Construction Phase - ignore all construction data

Off-road Equipment - ignore construction data

Vehicle Trips - ignore mobile source emissions.

Energy Use - Temp office trailer energy use was estimated with non-title 24 energy use to provide a conservative estimate

## Construction Trailer (Temp) - South Coast AQMD Air District, Annual

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	PhaseEndDate	7/23/2019	6/1/2020
tblConstructionPhase	PhaseStartDate	7/24/2019	6/1/2020
tblEnergyUse	LightingElect	4.63	3.77
tblEnergyUse	T24E	5.99	4.60
tblEnergyUse	T24NG	12.05	10.02
tblLandUse	Population	0.00	20.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblTripsAndVMT	WorkerTripNumber	8.00	3.00

## 2.0 Emissions Summary

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Construction Trailer (Temp) - South Coast AQMD Air District, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
4	4-24-2020	7-23-2020	0.0025	0.0025
		Highest	0.0025	0.0025

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	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	7.7905	7.7905	1.8000e-004	5.0000e-005	7.8086
Mobile	2.8100e-003	0.0157	0.0377	1.3000e-004	0.0103	1.3000e-004	0.0104	2.7500e-003	1.2000e-004	2.8700e-003	0.0000	11.9238	11.9238	6.1000e-004	0.0000	11.9391
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4677
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.9630	2.0194	5.8400e-003	1.5000e-004	2.2090
<b>Total</b>	<b>6.9500e-003</b>	<b>0.0162</b>	<b>0.0382</b>	<b>1.3000e-004</b>	<b>0.0103</b>	<b>1.7000e-004</b>	<b>0.0104</b>	<b>2.7500e-003</b>	<b>1.6000e-004</b>	<b>2.9100e-003</b>	<b>0.2452</b>	<b>21.6773</b>	<b>21.9225</b>	<b>0.0178</b>	<b>2.0000e-004</b>	<b>22.4244</b>

Construction Trailer (Temp) - South Coast AQMD Air District, Annual

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Energy	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	7.7905	7.7905	1.8000e-004	5.0000e-005	7.8086
Mobile	2.8100e-003	0.0157	0.0377	1.3000e-004	0.0103	1.3000e-004	0.0104	2.7500e-003	1.2000e-004	2.8700e-003	0.0000	11.9238	11.9238	6.1000e-004	0.0000	11.9391
Waste						0.0000	0.0000		0.0000	0.0000	0.1888	0.0000	0.1888	0.0112	0.0000	0.4677
Water						0.0000	0.0000		0.0000	0.0000	0.0564	1.9630	2.0194	5.8400e-003	1.5000e-004	2.2090
<b>Total</b>	<b>6.9500e-003</b>	<b>0.0162</b>	<b>0.0382</b>	<b>1.3000e-004</b>	<b>0.0103</b>	<b>1.7000e-004</b>	<b>0.0104</b>	<b>2.7500e-003</b>	<b>1.6000e-004</b>	<b>2.9100e-003</b>	<b>0.2452</b>	<b>21.6773</b>	<b>21.9225</b>	<b>0.0178</b>	<b>2.0000e-004</b>	<b>22.4244</b>

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

**3.0 Construction Detail**

**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/1/2020	6/1/2020	5	1	

Acres of Grading (Site Preparation Phase): 0

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Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	3	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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**3.2 Grading - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	3.1500e-003	2.9600e-003	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.4181	0.4181	7.0000e-005	0.0000	0.4197
<b>Total</b>	<b>3.6000e-004</b>	<b>3.1500e-003</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.8000e-004</b>	<b>5.6000e-004</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>0.4181</b>	<b>0.4181</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4197</b>

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0148	0.0148	0.0000	0.0000	0.0148
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0148</b>

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**3.2 Grading - 2020**

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.8000e-004	0.0000	3.8000e-004	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.6000e-004	3.1500e-003	2.9600e-003	0.0000		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	0.4181	0.4181	7.0000e-005	0.0000	0.4197
<b>Total</b>	<b>3.6000e-004</b>	<b>3.1500e-003</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>3.8000e-004</b>	<b>1.8000e-004</b>	<b>5.6000e-004</b>	<b>2.1000e-004</b>	<b>1.8000e-004</b>	<b>3.9000e-004</b>	<b>0.0000</b>	<b>0.4181</b>	<b>0.4181</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>0.4197</b>

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0148	0.0148	0.0000	0.0000	0.0148
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0148</b>	<b>0.0148</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0148</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.8100e-003	0.0157	0.0377	1.3000e-004	0.0103	1.3000e-004	0.0104	2.7500e-003	1.2000e-004	2.8700e-003	0.0000	11.9238	11.9238	6.1000e-004	0.0000	11.9391
Unmitigated	2.8100e-003	0.0157	0.0377	1.3000e-004	0.0103	1.3000e-004	0.0104	2.7500e-003	1.2000e-004	2.8700e-003	0.0000	11.9238	11.9238	6.1000e-004	0.0000	11.9391

**4.2 Trip Summary Information**

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	11.03	2.46	1.05	26,996	26,996
Total	11.03	2.46	1.05	26,996	26,996

**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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

**4.4 Fleet Mix**

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547828	0.043645	0.199892	0.122290	0.016774	0.005862	0.020637	0.032653	0.002037	0.001944	0.004777	0.000705	0.000956

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**5.0 Energy Detail**

Historical Energy Use: Y

**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	7.2349	7.2349	1.7000e-004	4.0000e-005	7.2497
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	7.2349	7.2349	1.7000e-004	4.0000e-005	7.2497
NaturalGas Mitigated	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
NaturalGas Unmitigated	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588



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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					
General Office Building	10410	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
<b>Total</b>		<b>6.0000e-005</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.5555</b>	<b>0.5555</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5588</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					
General Office Building	10410	6.0000e-005	5.1000e-004	4.3000e-004	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.5555	0.5555	1.0000e-005	1.0000e-005	0.5588
<b>Total</b>		<b>6.0000e-005</b>	<b>5.1000e-004</b>	<b>4.3000e-004</b>	<b>0.0000</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>		<b>4.0000e-005</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.5555</b>	<b>0.5555</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.5588</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			
General Office Building	12990	7.2349	1.7000e-004	4.0000e-005	7.2497
<b>Total</b>		<b>7.2349</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>7.2497</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	12990	7.2349	1.7000e-004	4.0000e-005	7.2497
<b>Total</b>		<b>7.2349</b>	<b>1.7000e-004</b>	<b>4.0000e-005</b>	<b>7.2497</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	4.0800e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</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	4.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
<b>Total</b>	<b>4.0700e-003</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>3.0000e-005</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.0194	5.8400e-003	1.5000e-004	2.2090
Unmitigated	2.0194	5.8400e-003	1.5000e-004	2.2090

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	2.0194	5.8400e-003	1.5000e-004	2.2090
<b>Total</b>		<b>2.0194</b>	<b>5.8400e-003</b>	<b>1.5000e-004</b>	<b>2.2090</b>

Construction Trailer (Temp) - South Coast AQMD Air District, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.177734 / 0.108934	2.0194	5.8400e-003	1.5000e-004	2.2090
<b>Total</b>		<b>2.0194</b>	<b>5.8400e-003</b>	<b>1.5000e-004</b>	<b>2.2090</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.1888	0.0112	0.0000	0.4677
Unmitigated	0.1888	0.0112	0.0000	0.4677

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4677
<b>Total</b>		<b>0.1888</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.4677</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.93	0.1888	0.0112	0.0000	0.4677
<b>Total</b>		<b>0.1888</b>	<b>0.0112</b>	<b>0.0000</b>	<b>0.4677</b>

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Construction Trailer (Temp) - South Coast AQMD Air District, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

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

Equipment Type	Number
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**11.0 Vegetation**

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