

**APPENDIX A:  
AIR QUALITY, GREENHOUSE GAS AND  
ENERGY CALCULATIONS**

# DATA, EQUIPMENT AND TIME ESTIMATE – General Information

Project: Signal Hill BP

LAND USE TYPE	UNITS/SF
Light Industrial	9 Bldgs. – 151,000 SF

**ZONING** (Will this project require one?)

Zone Change?

Yes   
 No

GPA?

Yes   
 No

**START DATES – One-Phase**

(Month/ Year)    Duration (Months)

Demolition (if applicable):	N/A	
Grading:	1/2020	4 mos.
Paving:	5/2021	1 mos.
Construction:	5/2020	12 mos.
Painting:	5/2021	1 mos.

**Pile Driving**

Is pile driving required?

Yes   
 No

Type of pile driving (e.g., diesel hammer, hydraulic hammer, hydraulic press-in, vibratory, etc.):

Number of piles:


Duration (days):

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**START DATES – Multi-Phase**

(Month/ Year)    Duration (Months)

Phase 1	Demolition:		
	Grading:		
	Paving:		
	Construction:		
	Painting:		
Phase 2	Demolition:		
	Grading:		
	Paving:		
	Construction:		
	Painting:		
Phase 3	Demolition:		
	Grading:		
	Paving:		
	Construction:		
	Painting:		

**COMPLETION DATE**

(Month/ Year)

For ALL Construction:

6/2021
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# DEMOLITION DETAILS

Project: \_\_\_\_\_

**DEMOLITION** N/A – Vacant Land

**BUILDING DEMOLITION**

Structure Dimensions or Tons of Demolished Material

Width	Length	Height	
			<div style="border: 1px solid black; width: 80px; height: 20px; margin: 0 auto;"></div>

**Haul Truck Data:**

Number of Trips/Day:	<div style="border: 1px solid black; width: 80px; height: 20px;"></div>	
Round Trip to Disposal Site:	<div style="border: 1px solid black; width: 80px; height: 20px;"></div>	(miles)
Approx. Cubic Yards of Each Truck	<div style="border: 1px solid black; width: 80px; height: 20px;"></div>	

**Asbestos Containing Material:**

(Check One)

Known to be Present?  Yes  No

**Underground Storage Tanks (UST):**

(Check One)

Known to be Present?  Yes  No

Units	Type of Equipment
	Bore/Drill Rigs
	Concrete/Industrial Saws
	Crane
	Crawler Tractors
	Crushing/Processing Equip.
	Excavators
	Graders
	Off-Highway Tractors
	Off-Highway Trucks
	Other Equipment
	Pavers
	Paving Equipment
	Rollers
	Rough Terrain Forklifts
	Rubber Tired Dozers
	Rubber Tired Loaders
	Scrapers
	Signal Boards
	Skid Steer Loaders
	Surfacing Equipment
	Tractors/Loaders/Backhoes
	Trenchers

RELATED ADDITIONAL INFORMATION:

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# GRADING EQUIPMENT / DUST CONTROL DETAILS

Project: \_\_\_\_\_

## GRADING

Units	Type of Equipment
	Bore/Drill Rigs
	Concrete/Industrial Saws
1	Crane
2	Crawler Tractors
	Crushing/Processing Equip.
	Excavators
3	Graders
	Off-Highway Tractors
	Off-Highway Trucks
	Other Equipment
	Pavers
	Paving Equipment
	Pile Drivers
1	Rollers
	Rough Terrain Forklifts
2 (track)	Rubber Tired Dozers
	Rubber Tired Loaders
3	Scrapers
	Signal Boards
	Skid Steer Loaders
	Surfacing Equipment
1	Tractors/Loaders/Backhoes
	Trenchers

## DUST CONTROL

Will Haul Roads be paved? (Check One)  
 Yes   
 No

How will dust be controlled? (Check One)  
 Water?  (Recommended)  
 Chemical?   
 Other?  Specify:

How often will the control method be applied? (Check One)  
 > 3 Times / Day  (Recommended)  
 > 1 Time / Day   
 Other

## EARTHWORK

Total Cut	10,360	cubic yards
Total Fill	39,545	cubic yards
Duration	120	days

## SOIL IMPORT / EXPORT INFORMATION

Soil to be imported	29,185	cubic yards
Soil to be exported	0	cubic yards
Hauling Days	90	(# of days soil will be brought in or out)
Roundtrip Distance	20	(distance from site to haul/dump site and back)

RELATED ADDITIONAL INFORMATION:

# CONSTRUCTION, PAVING, AND PAINTING EQUIPMENT DETAILS

Project: \_\_\_\_\_

### CONSTRUCTION

Units	Type of Equipment
	Bore/Drill Rigs
	Concrete/Industrial Saws
1	Crane
	Crawler Tractors
	Crushing/Processing Equip.
1	Excavators
	Graders
	Off-Highway Tractors
	Off-Highway Trucks
	Other Equipment
1	Pavers
	Paving Equipment
	Pile Drivers
	Rollers
	Rough Terrain Forklifts
	Rubber Tired Dozers
1	Rubber Tired Loaders
	Scrapers
	Signal Boards
	Skid Steer Loaders
	Surfacing Equipment
2	Tractors/Loaders/Backhoes
	Trenchers

### PAVING

Units	Type of Equipment
	Graders
	Off-Highway Trucks
	Other Equipment
1	Pavers
1	Paving Equipment
1	Rollers
	Rubber Tired Loaders
	Signal Boards
	Surfacing Equipment
1	Tractors/Loaders/Backhoes

### BUILDING INSULTATION – TITLE 24

Will structures MEET  Title 24 requirements?

Will structures EXCEED

If they EXCEED Title 24 requirements – by what percentage?

Check: 10%

20%

30%

Other:  (Fill in %)

### PAVING AREA (Includes existing street widening/excludes concreted areas)

Total Acres Paved:  (estimate)

(Please note that “paving” does NOT include concreted areas.)

Please describe any structures/buildings will be pre-coated or painted (please provide square footages as well):

9 Concrete Tilt-Up Buildings

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12-19-2019 CalEEMod Worksheets

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**2020 Walnut Industrial Park - Off-Road Equipment 4 hour  
Los Angeles-South Coast County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<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**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -



## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

## 2.0 Emissions Summary

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2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	2.3041	2.3041
2	4-1-2020	6-30-2020	2.2970	2.2970
3	7-1-2020	9-30-2020	1.1499	1.1499
4	10-1-2020	12-31-2020	1.1271	1.1271
5	1-1-2021	3-31-2021	0.9988	0.9988
6	4-1-2021	6-30-2021	1.0071	1.0071
7	7-1-2021	9-30-2021	0.9479	0.9479
		Highest	2.3041	2.3041

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	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	38.5115	0.0000	38.5115	2.2760	0.0000	95.4105
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
<b>Total</b>	<b>1.6674</b>	<b>5.6317</b>	<b>15.6344</b>	<b>0.0559</b>	<b>4.4846</b>	<b>0.0571</b>	<b>4.5418</b>	<b>1.2022</b>	<b>0.0540</b>	<b>1.2562</b>	<b>49.7363</b>	<b>5,931.4226</b>	<b>5,981.1589</b>	<b>3.7258</b>	<b>0.0359</b>	<b>6,085.0043</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	19.2557	0.0000	19.2557	1.1380	0.0000	47.7052
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
<b>Total</b>	<b>1.6674</b>	<b>5.6317</b>	<b>15.6344</b>	<b>0.0559</b>	<b>4.4846</b>	<b>0.0571</b>	<b>4.5418</b>	<b>1.2022</b>	<b>0.0540</b>	<b>1.2562</b>	<b>30.4806</b>	<b>5,931.4226</b>	<b>5,961.9032</b>	<b>2.5878</b>	<b>0.0359</b>	<b>6,037.2991</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>38.72</b>	<b>0.00</b>	<b>0.32</b>	<b>30.54</b>	<b>0.00</b>	<b>0.78</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

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

**Acres of Grading (Grading Phase): 242**

**Acres of Paving: 2.39**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)**

**OffRoad Equipment**

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**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					0.3961	0.0000	0.3961	0.1599	0.0000	0.1599	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2917	3.4248	1.6711	3.7900e-003		0.1405	0.1405		0.1293	0.1293	0.0000	332.8528	332.8528	0.1077	0.0000	335.5441
<b>Total</b>	<b>0.2917</b>	<b>3.4248</b>	<b>1.6711</b>	<b>3.7900e-003</b>	<b>0.3961</b>	<b>0.1405</b>	<b>0.5366</b>	<b>0.1599</b>	<b>0.1293</b>	<b>0.2892</b>	<b>0.0000</b>	<b>332.8528</b>	<b>332.8528</b>	<b>0.1077</b>	<b>0.0000</b>	<b>335.5441</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**3.2 Grading - 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	0.0277	0.9322	0.2055	2.4600e-003	0.0540	2.9000e-003	0.0569	0.0148	2.7700e-003	0.0176	0.0000	241.9485	241.9485	0.0169	0.0000	242.3698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.6000e-003	0.0951	2.6000e-004	0.0253	2.2000e-004	0.0255	6.7200e-003	2.0000e-004	6.9200e-003	0.0000	23.5932	23.5932	7.4000e-004	0.0000	23.6118
<b>Total</b>	<b>0.0384</b>	<b>0.9408</b>	<b>0.3006</b>	<b>2.7200e-003</b>	<b>0.0793</b>	<b>3.1200e-003</b>	<b>0.0824</b>	<b>0.0215</b>	<b>2.9700e-003</b>	<b>0.0245</b>	<b>0.0000</b>	<b>265.5417</b>	<b>265.5417</b>	<b>0.0176</b>	<b>0.0000</b>	<b>265.9816</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					0.1468	0.0000	0.1468	0.0593	0.0000	0.0593	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2917	3.4248	1.6711	3.7900e-003		0.1405	0.1405		0.1293	0.1293	0.0000	332.8524	332.8524	0.1077	0.0000	335.5437
<b>Total</b>	<b>0.2917</b>	<b>3.4248</b>	<b>1.6711</b>	<b>3.7900e-003</b>	<b>0.1468</b>	<b>0.1405</b>	<b>0.2873</b>	<b>0.0593</b>	<b>0.1293</b>	<b>0.1885</b>	<b>0.0000</b>	<b>332.8524</b>	<b>332.8524</b>	<b>0.1077</b>	<b>0.0000</b>	<b>335.5437</b>



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**3.2 Grading - 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	0.0277	0.9322	0.2055	2.4600e-003	0.0434	2.9000e-003	0.0463	0.0122	2.7700e-003	0.0150	0.0000	241.9485	241.9485	0.0169	0.0000	242.3698
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0107	8.6000e-003	0.0951	2.6000e-004	0.0196	2.2000e-004	0.0198	5.3200e-003	2.0000e-004	5.5200e-003	0.0000	23.5932	23.5932	7.4000e-004	0.0000	23.6118
<b>Total</b>	<b>0.0384</b>	<b>0.9408</b>	<b>0.3006</b>	<b>2.7200e-003</b>	<b>0.0630</b>	<b>3.1200e-003</b>	<b>0.0661</b>	<b>0.0176</b>	<b>2.9700e-003</b>	<b>0.0205</b>	<b>0.0000</b>	<b>265.5417</b>	<b>265.5417</b>	<b>0.0176</b>	<b>0.0000</b>	<b>265.9816</b>

**3.3 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	0.1767	1.6834	1.4223	2.5200e-003		0.0877	0.0877		0.0821	0.0821	0.0000	218.1546	218.1546	0.0586	0.0000	219.6194
<b>Total</b>	<b>0.1767</b>	<b>1.6834</b>	<b>1.4223</b>	<b>2.5200e-003</b>		<b>0.0877</b>	<b>0.0877</b>		<b>0.0821</b>	<b>0.0821</b>	<b>0.0000</b>	<b>218.1546</b>	<b>218.1546</b>	<b>0.0586</b>	<b>0.0000</b>	<b>219.6194</b>

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**3.3 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	0.0101	0.3029	0.0820	7.2000e-004	0.0176	1.4100e-003	0.0190	5.0800e-003	1.3500e-003	6.4300e-003	0.0000	69.4351	69.4351	4.4100e-003	0.0000	69.5454
Worker	0.0327	0.0264	0.2916	8.0000e-004	0.0776	6.6000e-004	0.0783	0.0206	6.1000e-004	0.0212	0.0000	72.3627	72.3627	2.2800e-003	0.0000	72.4197
<b>Total</b>	<b>0.0429</b>	<b>0.3293</b>	<b>0.3736</b>	<b>1.5200e-003</b>	<b>0.0953</b>	<b>2.0700e-003</b>	<b>0.0973</b>	<b>0.0257</b>	<b>1.9600e-003</b>	<b>0.0277</b>	<b>0.0000</b>	<b>141.7978</b>	<b>141.7978</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>141.9651</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	0.1767	1.6834	1.4223	2.5200e-003		0.0877	0.0877		0.0821	0.0821	0.0000	218.1543	218.1543	0.0586	0.0000	219.6192
<b>Total</b>	<b>0.1767</b>	<b>1.6834</b>	<b>1.4223</b>	<b>2.5200e-003</b>		<b>0.0877</b>	<b>0.0877</b>		<b>0.0821</b>	<b>0.0821</b>	<b>0.0000</b>	<b>218.1543</b>	<b>218.1543</b>	<b>0.0586</b>	<b>0.0000</b>	<b>219.6192</b>

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**3.3 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	0.0101	0.3029	0.0820	7.2000e-004	0.0144	1.4100e-003	0.0158	4.2900e-003	1.3500e-003	5.6300e-003	0.0000	69.4351	69.4351	4.4100e-003	0.0000	69.5454
Worker	0.0327	0.0264	0.2916	8.0000e-004	0.0601	6.6000e-004	0.0608	0.0163	6.1000e-004	0.0169	0.0000	72.3627	72.3627	2.2800e-003	0.0000	72.4197
<b>Total</b>	<b>0.0429</b>	<b>0.3293</b>	<b>0.3736</b>	<b>1.5200e-003</b>	<b>0.0745</b>	<b>2.0700e-003</b>	<b>0.0766</b>	<b>0.0206</b>	<b>1.9600e-003</b>	<b>0.0226</b>	<b>0.0000</b>	<b>141.7978</b>	<b>141.7978</b>	<b>6.6900e-003</b>	<b>0.0000</b>	<b>141.9651</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1652	1.5697	1.4477	2.6000e-003		0.0788	0.0788		0.0738	0.0738	0.0000	224.8715	224.8715	0.0600	0.0000	226.3709
<b>Total</b>	<b>0.1652</b>	<b>1.5697</b>	<b>1.4477</b>	<b>2.6000e-003</b>		<b>0.0788</b>	<b>0.0788</b>		<b>0.0738</b>	<b>0.0738</b>	<b>0.0000</b>	<b>224.8715</b>	<b>224.8715</b>	<b>0.0600</b>	<b>0.0000</b>	<b>226.3709</b>

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**3.3 Building Construction - 2021**

**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	8.9500e-003	0.2843	0.0771	7.3000e-004	0.0182	5.8000e-004	0.0187	5.2400e-003	5.5000e-004	5.7900e-003	0.0000	71.0157	71.0157	4.3600e-003	0.0000	71.1246
Worker	0.0314	0.0245	0.2762	8.0000e-004	0.0800	6.6000e-004	0.0807	0.0213	6.1000e-004	0.0219	0.0000	72.2206	72.2206	2.1300e-003	0.0000	72.2737
<b>Total</b>	<b>0.0404</b>	<b>0.3088</b>	<b>0.3533</b>	<b>1.5300e-003</b>	<b>0.0982</b>	<b>1.2400e-003</b>	<b>0.0994</b>	<b>0.0265</b>	<b>1.1600e-003</b>	<b>0.0277</b>	<b>0.0000</b>	<b>143.2363</b>	<b>143.2363</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>143.3983</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	0.1652	1.5697	1.4477	2.6000e-003		0.0788	0.0788		0.0738	0.0738	0.0000	224.8712	224.8712	0.0600	0.0000	226.3706
<b>Total</b>	<b>0.1652</b>	<b>1.5697</b>	<b>1.4477</b>	<b>2.6000e-003</b>		<b>0.0788</b>	<b>0.0788</b>		<b>0.0738</b>	<b>0.0738</b>	<b>0.0000</b>	<b>224.8712</b>	<b>224.8712</b>	<b>0.0600</b>	<b>0.0000</b>	<b>226.3706</b>

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**3.3 Building Construction - 2021**

**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	8.9500e-003	0.2843	0.0771	7.3000e-004	0.0148	5.8000e-004	0.0154	4.4200e-003	5.5000e-004	4.9700e-003	0.0000	71.0157	71.0157	4.3600e-003	0.0000	71.1246
Worker	0.0314	0.0245	0.2762	8.0000e-004	0.0620	6.6000e-004	0.0627	0.0168	6.1000e-004	0.0174	0.0000	72.2206	72.2206	2.1300e-003	0.0000	72.2737
<b>Total</b>	<b>0.0404</b>	<b>0.3088</b>	<b>0.3533</b>	<b>1.5300e-003</b>	<b>0.0768</b>	<b>1.2400e-003</b>	<b>0.0780</b>	<b>0.0213</b>	<b>1.1600e-003</b>	<b>0.0224</b>	<b>0.0000</b>	<b>143.2363</b>	<b>143.2363</b>	<b>6.4900e-003</b>	<b>0.0000</b>	<b>143.3983</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.4500e-003	0.0867	0.0992	1.5000e-004		4.6500e-003	4.6500e-003		4.2800e-003	4.2800e-003	0.0000	13.2649	13.2649	4.2900e-003	0.0000	13.3722
Paving	3.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0116</b>	<b>0.0867</b>	<b>0.0992</b>	<b>1.5000e-004</b>		<b>4.6500e-003</b>	<b>4.6500e-003</b>		<b>4.2800e-003</b>	<b>4.2800e-003</b>	<b>0.0000</b>	<b>13.2649</b>	<b>13.2649</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>13.3722</b>

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**3.4 Paving - 2021**

**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	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	1.2100e-003	1.0000e-005	1.2200e-003	3.2000e-004	1.0000e-005	3.3000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
<b>Total</b>	<b>4.7000e-004</b>	<b>3.7000e-004</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>	<b>1.2100e-003</b>	<b>1.0000e-005</b>	<b>1.2200e-003</b>	<b>3.2000e-004</b>	<b>1.0000e-005</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>1.0878</b>	<b>1.0878</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0886</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	8.4500e-003	0.0867	0.0992	1.5000e-004		4.6500e-003	4.6500e-003		4.2800e-003	4.2800e-003	0.0000	13.2649	13.2649	4.2900e-003	0.0000	13.3722
Paving	3.1300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>0.0116</b>	<b>0.0867</b>	<b>0.0992</b>	<b>1.5000e-004</b>		<b>4.6500e-003</b>	<b>4.6500e-003</b>		<b>4.2800e-003</b>	<b>4.2800e-003</b>	<b>0.0000</b>	<b>13.2649</b>	<b>13.2649</b>	<b>4.2900e-003</b>	<b>0.0000</b>	<b>13.3722</b>

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**3.4 Paving - 2021**

**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	4.7000e-004	3.7000e-004	4.1600e-003	1.0000e-005	9.3000e-004	1.0000e-005	9.4000e-004	2.5000e-004	1.0000e-005	2.6000e-004	0.0000	1.0878	1.0878	3.0000e-005	0.0000	1.0886
<b>Total</b>	<b>4.7000e-004</b>	<b>3.7000e-004</b>	<b>4.1600e-003</b>	<b>1.0000e-005</b>	<b>9.3000e-004</b>	<b>1.0000e-005</b>	<b>9.4000e-004</b>	<b>2.5000e-004</b>	<b>1.0000e-005</b>	<b>2.6000e-004</b>	<b>0.0000</b>	<b>1.0878</b>	<b>1.0878</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>1.0886</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.7240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0168	0.0200	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	2.8086	2.8086	1.9000e-004	0.0000	2.8134
<b>Total</b>	<b>0.7264</b>	<b>0.0168</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.8134</b>

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**3.5 Architectural Coating - 2021**

**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	1.0400e-003	8.1000e-004	9.1500e-003	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3932	2.3932	7.0000e-005	0.0000	2.3949
<b>Total</b>	<b>1.0400e-003</b>	<b>8.1000e-004</b>	<b>9.1500e-003</b>	<b>3.0000e-005</b>	<b>2.6500e-003</b>	<b>2.0000e-005</b>	<b>2.6700e-003</b>	<b>7.0000e-004</b>	<b>2.0000e-005</b>	<b>7.2000e-004</b>	<b>0.0000</b>	<b>2.3932</b>	<b>2.3932</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.3949</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	0.7240					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4100e-003	0.0168	0.0200	3.0000e-005		1.0400e-003	1.0400e-003		1.0400e-003	1.0400e-003	0.0000	2.8086	2.8086	1.9000e-004	0.0000	2.8134
<b>Total</b>	<b>0.7264</b>	<b>0.0168</b>	<b>0.0200</b>	<b>3.0000e-005</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>		<b>1.0400e-003</b>	<b>1.0400e-003</b>	<b>0.0000</b>	<b>2.8086</b>	<b>2.8086</b>	<b>1.9000e-004</b>	<b>0.0000</b>	<b>2.8134</b>



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**3.5 Architectural Coating - 2021**

**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	1.0400e-003	8.1000e-004	9.1500e-003	3.0000e-005	2.0500e-003	2.0000e-005	2.0800e-003	5.6000e-004	2.0000e-005	5.8000e-004	0.0000	2.3932	2.3932	7.0000e-005	0.0000	2.3949
<b>Total</b>	<b>1.0400e-003</b>	<b>8.1000e-004</b>	<b>9.1500e-003</b>	<b>3.0000e-005</b>	<b>2.0500e-003</b>	<b>2.0000e-005</b>	<b>2.0800e-003</b>	<b>5.6000e-004</b>	<b>2.0000e-005</b>	<b>5.8000e-004</b>	<b>0.0000</b>	<b>2.3932</b>	<b>2.3932</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.3949</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	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Unmitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
NaturalGas Mitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
NaturalGas Unmitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586

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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 Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
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>0.0149</b>	<b>0.1358</b>	<b>0.1140</b>	<b>8.1000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>147.7804</b>	<b>147.7804</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6586</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 Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
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>0.0149</b>	<b>0.1358</b>	<b>0.1140</b>	<b>8.1000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>147.7804</b>	<b>147.7804</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6586</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 Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
<b>Total</b>		<b>552.9802</b>	<b>0.0228</b>	<b>4.7200e-003</b>	<b>554.9585</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
<b>Total</b>		<b>552.9802</b>	<b>0.0228</b>	<b>4.7200e-003</b>	<b>554.9585</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Unmitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111

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	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
<b>Total</b>	<b>0.6326</b>	<b>5.0000e-005</b>	<b>5.3700e-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>0.0000</b>	<b>0.0104</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0111</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	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
<b>Total</b>	<b>0.6326</b>	<b>5.0000e-005</b>	<b>5.3700e-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>0.0000</b>	<b>0.0104</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0111</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	158.0135	1.1590	0.0285	195.4734
Unmitigated	158.0135	1.1590	0.0285	195.4734

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>158.0135</b>	<b>1.1590</b>	<b>0.0285</b>	<b>195.4734</b>



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>158.0135</b>	<b>1.1590</b>	<b>0.0285</b>	<b>195.4734</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.2557	1.1380	0.0000	47.7052
Unmitigated	38.5115	2.2760	0.0000	95.4105

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	189.72	38.5115	2.2760	0.0000	95.4105
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>38.5115</b>	<b>2.2760</b>	<b>0.0000</b>	<b>95.4105</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	94.86	19.2557	1.1380	0.0000	47.7052
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>19.2557</b>	<b>1.1380</b>	<b>0.0000</b>	<b>47.7052</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
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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**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Annual

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2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**2020 Walnut Industrial Park - Off-Road Equipment 4 hour**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<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**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

## 2.0 Emissions Summary

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2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
<b>Total</b>	<b>9.4246</b>	<b>29.4766</b>	<b>89.8009</b>	<b>0.3184</b>	<b>25.1259</b>	<b>0.3135</b>	<b>25.4394</b>	<b>6.7244</b>	<b>0.2965</b>	<b>7.0209</b>		<b>32,800.8711</b>	<b>32,800.8711</b>	<b>1.6404</b>	<b>0.0164</b>	<b>32,846.7580</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
<b>Total</b>	<b>9.4246</b>	<b>29.4766</b>	<b>89.8009</b>	<b>0.3184</b>	<b>25.1259</b>	<b>0.3135</b>	<b>25.4394</b>	<b>6.7244</b>	<b>0.2965</b>	<b>7.0209</b>		<b>32,800.8711</b>	<b>32,800.8711</b>	<b>1.6404</b>	<b>0.0164</b>	<b>32,846.7580</b>

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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
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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

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

**Acres of Grading (Grading Phase): 242**

**Acres of Paving: 2.39**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**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	lb/day										lb/day					
Fugitive Dust					6.0020	0.0000	6.0020	2.4233	0.0000	2.4233			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587		5,559.203 1	5,559.203 1	1.7980		5,604.152 1
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>6.0020</b>	<b>2.1290</b>	<b>8.1310</b>	<b>2.4233</b>	<b>1.9587</b>	<b>4.3819</b>		<b>5,559.203 1</b>	<b>5,559.203 1</b>	<b>1.7980</b>		<b>5,604.152 1</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.2 Grading - 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	0.4154	13.6756	3.0304	0.0376	0.8316	0.0437	0.8752	0.2280	0.0418	0.2697		4,070.3880	4,070.3880	0.2771		4,077.3144
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	0.1611	0.1146	1.5325	4.1300e-003	0.3912	3.2700e-003	0.3945	0.1038	3.0100e-003	0.1068		411.6395	411.6395	0.0130		411.9640
<b>Total</b>	<b>0.5765</b>	<b>13.7902</b>	<b>4.5629</b>	<b>0.0417</b>	<b>1.2228</b>	<b>0.0469</b>	<b>1.2697</b>	<b>0.3317</b>	<b>0.0448</b>	<b>0.3765</b>		<b>4,482.0275</b>	<b>4,482.0275</b>	<b>0.2900</b>		<b>4,489.2784</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					2.2237	0.0000	2.2237	0.8978	0.0000	0.8978			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587	0.0000	5,559.2031	5,559.2031	1.7980		5,604.1521
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>2.2237</b>	<b>2.1290</b>	<b>4.3527</b>	<b>0.8978</b>	<b>1.9587</b>	<b>2.8565</b>	<b>0.0000</b>	<b>5,559.2031</b>	<b>5,559.2031</b>	<b>1.7980</b>		<b>5,604.1521</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.2 Grading - 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	0.4154	13.6756	3.0304	0.0376	0.6681	0.0437	0.7117	0.1878	0.0418	0.2296		4,070.3880	4,070.3880	0.2771		4,077.3144
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	0.1611	0.1146	1.5325	4.1300e-003	0.3028	3.2700e-003	0.3061	0.0821	3.0100e-003	0.0851		411.6395	411.6395	0.0130		411.9640
<b>Total</b>	<b>0.5765</b>	<b>13.7902</b>	<b>4.5629</b>	<b>0.0417</b>	<b>0.9709</b>	<b>0.0469</b>	<b>1.0178</b>	<b>0.2699</b>	<b>0.0448</b>	<b>0.3146</b>		<b>4,482.0275</b>	<b>4,482.0275</b>	<b>0.2900</b>		<b>4,489.2784</b>

**3.3 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	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636		3,699.6039	3,699.6039	0.9937		3,724.4457
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>		<b>3,699.6039</b>	<b>3,699.6039</b>	<b>0.9937</b>		<b>3,724.4457</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.3 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	0.1529	4.5740	1.1984	0.0112	0.2753	0.0215	0.2968	0.0793	0.0206	0.0999		1,191.206 2	1,191.206 2	0.0727		1,193.023 5
Worker	0.5016	0.3569	4.7725	0.0129	1.2184	0.0102	1.2286	0.3231	9.3800e-003	0.3325		1,281.963 0	1,281.963 0	0.0404		1,282.973 5
<b>Total</b>	<b>0.6546</b>	<b>4.9309</b>	<b>5.9709</b>	<b>0.0240</b>	<b>1.4937</b>	<b>0.0317</b>	<b>1.5254</b>	<b>0.4024</b>	<b>0.0300</b>	<b>0.4324</b>		<b>2,473.169 2</b>	<b>2,473.169 2</b>	<b>0.1131</b>		<b>2,475.996 9</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	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636	0.0000	3,699.603 9	3,699.603 9	0.9937		3,724.445 7
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>	<b>0.0000</b>	<b>3,699.603 9</b>	<b>3,699.603 9</b>	<b>0.9937</b>		<b>3,724.445 7</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.3 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	0.1529	4.5740	1.1984	0.0112	0.2243	0.0215	0.2458	0.0667	0.0206	0.0873		1,191.206 2	1,191.206 2	0.0727		1,193.023 5
Worker	0.5016	0.3569	4.7725	0.0129	0.9430	0.0102	0.9532	0.2555	9.3800e-003	0.2649		1,281.963 0	1,281.963 0	0.0404		1,282.973 5
<b>Total</b>	<b>0.6546</b>	<b>4.9309</b>	<b>5.9709</b>	<b>0.0240</b>	<b>1.1673</b>	<b>0.0317</b>	<b>1.1990</b>	<b>0.3223</b>	<b>0.0300</b>	<b>0.3522</b>		<b>2,473.169 2</b>	<b>2,473.169 2</b>	<b>0.1131</b>		<b>2,475.996 9</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008		3,699.677 1	3,699.677 1	0.9868		3,724.346 0
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>		<b>3,699.677 1</b>	<b>3,699.677 1</b>	<b>0.9868</b>		<b>3,724.346 0</b>



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.3 Building Construction - 2021**

**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	0.1307	4.1749	1.0914	0.0111	0.2753	8.5400e-003	0.2838	0.0793	8.1600e-003	0.0874		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4672	0.3212	4.3902	0.0125	1.2184	9.8400e-003	1.2282	0.3231	9.0700e-003	0.3322		1,241.2591	1,241.2591	0.0366		1,242.1735
<b>Total</b>	<b>0.5979</b>	<b>4.4960</b>	<b>5.4817</b>	<b>0.0235</b>	<b>1.4937</b>	<b>0.0184</b>	<b>1.5120</b>	<b>0.4024</b>	<b>0.0172</b>	<b>0.4196</b>		<b>2,423.2459</b>	<b>2,423.2459</b>	<b>0.1062</b>		<b>2,425.9011</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	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008	0.0000	3,699.6771	3,699.6771	0.9868		3,724.3460
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>	<b>0.0000</b>	<b>3,699.6771</b>	<b>3,699.6771</b>	<b>0.9868</b>		<b>3,724.3460</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.3 Building Construction - 2021**

**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	0.1307	4.1749	1.0914	0.0111	0.2243	8.5400e-003	0.2328	0.0667	8.1600e-003	0.0749		1,181.9867	1,181.9867	0.0696		1,183.7276
Worker	0.4672	0.3212	4.3902	0.0125	0.9430	9.8400e-003	0.9528	0.2555	9.0700e-003	0.2646		1,241.2591	1,241.2591	0.0366		1,242.1735
<b>Total</b>	<b>0.5979</b>	<b>4.4960</b>	<b>5.4817</b>	<b>0.0235</b>	<b>1.1673</b>	<b>0.0184</b>	<b>1.1856</b>	<b>0.3223</b>	<b>0.0172</b>	<b>0.3395</b>		<b>2,423.2459</b>	<b>2,423.2459</b>	<b>0.1062</b>		<b>2,425.9011</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889		1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>		<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.4 Paving - 2021**

**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	0.0429	0.0295	0.4028	1.1400e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		113.8770	113.8770	3.3600e-003		113.9609
<b>Total</b>	<b>0.0429</b>	<b>0.0295</b>	<b>0.4028</b>	<b>1.1400e-003</b>	<b>0.1118</b>	<b>9.0000e-004</b>	<b>0.1127</b>	<b>0.0296</b>	<b>8.3000e-004</b>	<b>0.0305</b>		<b>113.8770</b>	<b>113.8770</b>	<b>3.3600e-003</b>		<b>113.9609</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	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889	0.0000	1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>	<b>0.0000</b>	<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.4 Paving - 2021**

**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	0.0429	0.0295	0.4028	1.1400e-003	0.0865	9.0000e-004	0.0874	0.0234	8.3000e-004	0.0243		113.8770	113.8770	3.3600e-003		113.9609
<b>Total</b>	<b>0.0429</b>	<b>0.0295</b>	<b>0.4028</b>	<b>1.1400e-003</b>	<b>0.0865</b>	<b>9.0000e-004</b>	<b>0.0874</b>	<b>0.0234</b>	<b>8.3000e-004</b>	<b>0.0243</b>		<b>113.8770</b>	<b>113.8770</b>	<b>3.3600e-003</b>		<b>113.9609</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.5 Architectural Coating - 2021**

**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	0.0943	0.0648	0.8861	2.5200e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		250.5294	250.5294	7.3800e-003		250.7139
<b>Total</b>	<b>0.0943</b>	<b>0.0648</b>	<b>0.8861</b>	<b>2.5200e-003</b>	<b>0.2459</b>	<b>1.9900e-003</b>	<b>0.2479</b>	<b>0.0652</b>	<b>1.8300e-003</b>	<b>0.0671</b>		<b>250.5294</b>	<b>250.5294</b>	<b>7.3800e-003</b>		<b>250.7139</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	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**3.5 Architectural Coating - 2021**

**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	0.0943	0.0648	0.8861	2.5200e-003	0.1903	1.9900e-003	0.1923	0.0516	1.8300e-003	0.0534		250.5294	250.5294	7.3800e-003		250.7139
<b>Total</b>	<b>0.0943</b>	<b>0.0648</b>	<b>0.8861</b>	<b>2.5200e-003</b>	<b>0.1903</b>	<b>1.9900e-003</b>	<b>0.1923</b>	<b>0.0516</b>	<b>1.8300e-003</b>	<b>0.0534</b>		<b>250.5294</b>	<b>250.5294</b>	<b>7.3800e-003</b>		<b>250.7139</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Unmitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</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					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

**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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Summer

**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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2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**2020 Walnut Industrial Park - Off-Road Equipment 4 hour**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<b>Utility Company</b>	Southern California Edison				
<b>CO2 Intensity (lb/MWhr)</b>	702.44	<b>CH4 Intensity (lb/MWhr)</b>	0.029	<b>N2O Intensity (lb/MWhr)</b>	0.006

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

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

Construction Phase - Per construction questionnaire.

Off-road Equipment -

Off-road Equipment - Per construction questionnaire.

Off-road Equipment - Per construction questionnaire. Grading Equipment limited to 4 hours per day.

Off-road Equipment - Per construction questionnaire.

Trips and VMT - 6,278 trips hauling

Grading - 41,672 import of dirt and 8,551 export of dirt

Vehicle Trips - Per Traffic Impact Analysis.

Construction Off-road Equipment Mitigation - Per SCAQMD standards and regulations.

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	26
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	12
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	230.00	264.00
tblConstructionPhase	NumDays	20.00	132.00
tblConstructionPhase	NumDays	20.00	22.00
tblGrading	MaterialExported	0.00	8,551.00
tblGrading	MaterialImported	0.00	41,672.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblOffRoadEquipment	UsageHours	7.00	6.00
tblOffRoadEquipment	UsageHours	8.00	4.00
tblVehicleTrips	ST_TR	1.32	17.44
tblVehicleTrips	SU_TR	0.68	17.44
tblVehicleTrips	WD_TR	6.97	17.44

## 2.0 Emissions Summary

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2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</b>

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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
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

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	1/1/2020	7/2/2020	5	132	
2	Building Construction	Building Construction	7/3/2020	7/7/2021	5	264	
3	Paving	Paving	7/8/2021	8/6/2021	5	22	
4	Architectural Coating	Architectural Coating	8/7/2021	9/7/2021	5	22	

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

**Acres of Grading (Grading Phase): 242**

**Acres of Paving: 2.39**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 229,500; Non-Residential Outdoor: 76,500; Striped Parking Area: 6,384 (Architectural Coating – sqft)**

#### OffRoad Equipment

## 2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Cranes	1	4.00	231	0.29
Grading	Crawler Tractors	2	4.00	212	0.43
Grading	Excavators	1	4.00	158	0.38
Grading	Graders	3	4.00	187	0.41
Grading	Rollers	1	4.00	80	0.38
Grading	Rubber Tired Dozers	2	4.00	247	0.40
Grading	Scrapers	3	4.00	367	0.48
Grading	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Excavators	1	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	8.00	130	0.42
Building Construction	Rubber Tired Loaders	1	7.00	203	0.36
Building Construction	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	1	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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
Grading	14	35.00	0.00	6,278.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	109.00	43.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	4	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	22.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

**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	lb/day										lb/day					
Fugitive Dust					6.0020	0.0000	6.0020	2.4233	0.0000	2.4233			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587		5,559.203 1	5,559.203 1	1.7980		5,604.152 1
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>6.0020</b>	<b>2.1290</b>	<b>8.1310</b>	<b>2.4233</b>	<b>1.9587</b>	<b>4.3819</b>		<b>5,559.203 1</b>	<b>5,559.203 1</b>	<b>1.7980</b>		<b>5,604.152 1</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.2 Grading - 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	0.4255	13.8526	3.2206	0.0369	0.8316	0.0443	0.8759	0.2280	0.0424	0.2704		4,000.294 4	4,000.294 4	0.2871		4,007.472 6
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	0.1789	0.1269	1.4035	3.8900e-003	0.3912	3.2700e-003	0.3945	0.1038	3.0100e-003	0.1068		387.5971	387.5971	0.0122		387.9026
<b>Total</b>	<b>0.6044</b>	<b>13.9795</b>	<b>4.6241</b>	<b>0.0408</b>	<b>1.2228</b>	<b>0.0476</b>	<b>1.2704</b>	<b>0.3317</b>	<b>0.0454</b>	<b>0.3771</b>		<b>4,387.891 5</b>	<b>4,387.891 5</b>	<b>0.2994</b>		<b>4,395.375 2</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					2.2237	0.0000	2.2237	0.8978	0.0000	0.8978			0.0000			0.0000
Off-Road	4.4195	51.8916	25.3193	0.0574		2.1290	2.1290		1.9587	1.9587	0.0000	5,559.203 1	5,559.203 1	1.7980		5,604.152 1
<b>Total</b>	<b>4.4195</b>	<b>51.8916</b>	<b>25.3193</b>	<b>0.0574</b>	<b>2.2237</b>	<b>2.1290</b>	<b>4.3527</b>	<b>0.8978</b>	<b>1.9587</b>	<b>2.8565</b>	<b>0.0000</b>	<b>5,559.203 1</b>	<b>5,559.203 1</b>	<b>1.7980</b>		<b>5,604.152 1</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.2 Grading - 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	0.4255	13.8526	3.2206	0.0369	0.6681	0.0443	0.7124	0.1878	0.0424	0.2302		4,000.294 4	4,000.294 4	0.2871		4,007.472 6
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	0.1789	0.1269	1.4035	3.8900e-003	0.3028	3.2700e-003	0.3061	0.0821	3.0100e-003	0.0851		387.5971	387.5971	0.0122		387.9026
<b>Total</b>	<b>0.6044</b>	<b>13.9795</b>	<b>4.6241</b>	<b>0.0408</b>	<b>0.9709</b>	<b>0.0476</b>	<b>1.0185</b>	<b>0.2699</b>	<b>0.0454</b>	<b>0.3153</b>		<b>4,387.891 5</b>	<b>4,387.891 5</b>	<b>0.2994</b>		<b>4,395.375 2</b>

**3.3 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	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636		3,699.603 9	3,699.603 9	0.9937		3,724.445 7
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>		<b>3,699.603 9</b>	<b>3,699.603 9</b>	<b>0.9937</b>		<b>3,724.445 7</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 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	0.1599	4.5731	1.3218	0.0109	0.2753	0.0219	0.2972	0.0793	0.0209	0.1002		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	1.2184	0.0102	1.2286	0.3231	9.3800e-003	0.3325		1,207.0882	1,207.0882	0.0381		1,208.0394
<b>Total</b>	<b>0.7169</b>	<b>4.9682</b>	<b>5.6928</b>	<b>0.0230</b>	<b>1.4937</b>	<b>0.0321</b>	<b>1.5257</b>	<b>0.4024</b>	<b>0.0303</b>	<b>0.4327</b>		<b>2,365.7192</b>	<b>2,365.7192</b>	<b>0.1155</b>		<b>2,368.6073</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	2.7191	25.8991	21.8809	0.0388		1.3489	1.3489		1.2636	1.2636	0.0000	3,699.6039	3,699.6039	0.9937		3,724.4457
<b>Total</b>	<b>2.7191</b>	<b>25.8991</b>	<b>21.8809</b>	<b>0.0388</b>		<b>1.3489</b>	<b>1.3489</b>		<b>1.2636</b>	<b>1.2636</b>	<b>0.0000</b>	<b>3,699.6039</b>	<b>3,699.6039</b>	<b>0.9937</b>		<b>3,724.4457</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 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	0.1599	4.5731	1.3218	0.0109	0.2243	0.0219	0.2462	0.0667	0.0209	0.0877		1,158.6310	1,158.6310	0.0775		1,160.5679
Worker	0.5570	0.3951	4.3710	0.0121	0.9430	0.0102	0.9532	0.2555	9.3800e-003	0.2649		1,207.0882	1,207.0882	0.0381		1,208.0394
<b>Total</b>	<b>0.7169</b>	<b>4.9682</b>	<b>5.6928</b>	<b>0.0230</b>	<b>1.1673</b>	<b>0.0321</b>	<b>1.1993</b>	<b>0.3223</b>	<b>0.0303</b>	<b>0.3526</b>		<b>2,365.7192</b>	<b>2,365.7192</b>	<b>0.1155</b>		<b>2,368.6073</b>

**3.3 Building Construction - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008		3,699.6771	3,699.6771	0.9868		3,724.3460
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>		<b>3,699.6771</b>	<b>3,699.6771</b>	<b>0.9868</b>		<b>3,724.3460</b>



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 Building Construction - 2021**

**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	0.1372	4.1662	1.2073	0.0108	0.2753	8.8100e-003	0.2841	0.0793	8.4300e-003	0.0877		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	1.2184	9.8400e-003	1.2282	0.3231	9.0700e-003	0.3322		1,168.7537	1,168.7537	0.0344		1,169.6135
<b>Total</b>	<b>0.6569</b>	<b>4.5217</b>	<b>5.2213</b>	<b>0.0225</b>	<b>1.4937</b>	<b>0.0187</b>	<b>1.5123</b>	<b>0.4024</b>	<b>0.0175</b>	<b>0.4199</b>		<b>2,318.3395</b>	<b>2,318.3395</b>	<b>0.1086</b>		<b>2,321.0546</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	2.4658	23.4286	21.6079	0.0388		1.1755	1.1755		1.1008	1.1008	0.0000	3,699.6771	3,699.6771	0.9868		3,724.3460
<b>Total</b>	<b>2.4658</b>	<b>23.4286</b>	<b>21.6079</b>	<b>0.0388</b>		<b>1.1755</b>	<b>1.1755</b>		<b>1.1008</b>	<b>1.1008</b>	<b>0.0000</b>	<b>3,699.6771</b>	<b>3,699.6771</b>	<b>0.9868</b>		<b>3,724.3460</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.3 Building Construction - 2021**

**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	0.1372	4.1662	1.2073	0.0108	0.2243	8.8100e-003	0.2331	0.0667	8.4300e-003	0.0752		1,149.5858	1,149.5858	0.0742		1,151.4411
Worker	0.5197	0.3555	4.0140	0.0117	0.9430	9.8400e-003	0.9528	0.2555	9.0700e-003	0.2646		1,168.7537	1,168.7537	0.0344		1,169.6135
<b>Total</b>	<b>0.6569</b>	<b>4.5217</b>	<b>5.2213</b>	<b>0.0225</b>	<b>1.1673</b>	<b>0.0187</b>	<b>1.1859</b>	<b>0.3223</b>	<b>0.0175</b>	<b>0.3398</b>		<b>2,318.3395</b>	<b>2,318.3395</b>	<b>0.1086</b>		<b>2,321.0546</b>

**3.4 Paving - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889		1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>		<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.4 Paving - 2021**

**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	0.0477	0.0326	0.3683	1.0800e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.0477</b>	<b>0.0326</b>	<b>0.3683</b>	<b>1.0800e-003</b>	<b>0.1118</b>	<b>9.0000e-004</b>	<b>0.1127</b>	<b>0.0296</b>	<b>8.3000e-004</b>	<b>0.0305</b>		<b>107.2251</b>	<b>107.2251</b>	<b>3.1600e-003</b>		<b>107.3040</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	0.7682	7.8814	9.0218	0.0137		0.4227	0.4227		0.3889	0.3889	0.0000	1,329.2805	1,329.2805	0.4299		1,340.0284
Paving	0.2846					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.0529</b>	<b>7.8814</b>	<b>9.0218</b>	<b>0.0137</b>		<b>0.4227</b>	<b>0.4227</b>		<b>0.3889</b>	<b>0.3889</b>	<b>0.0000</b>	<b>1,329.2805</b>	<b>1,329.2805</b>	<b>0.4299</b>		<b>1,340.0284</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.4 Paving - 2021**

**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	0.0477	0.0326	0.3683	1.0800e-003	0.0865	9.0000e-004	0.0874	0.0234	8.3000e-004	0.0243		107.2251	107.2251	3.1600e-003		107.3040
<b>Total</b>	<b>0.0477</b>	<b>0.0326</b>	<b>0.3683</b>	<b>1.0800e-003</b>	<b>0.0865</b>	<b>9.0000e-004</b>	<b>0.0874</b>	<b>0.0234</b>	<b>8.3000e-004</b>	<b>0.0243</b>		<b>107.2251</b>	<b>107.2251</b>	<b>3.1600e-003</b>		<b>107.3040</b>

**3.5 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941		281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2021**

**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	0.1049	0.0718	0.8102	2.3700e-003	0.2459	1.9900e-003	0.2479	0.0652	1.8300e-003	0.0671		235.8952	235.8952	6.9400e-003		236.0688
<b>Total</b>	<b>0.1049</b>	<b>0.0718</b>	<b>0.8102</b>	<b>2.3700e-003</b>	<b>0.2459</b>	<b>1.9900e-003</b>	<b>0.2479</b>	<b>0.0652</b>	<b>1.8300e-003</b>	<b>0.0671</b>		<b>235.8952</b>	<b>235.8952</b>	<b>6.9400e-003</b>		<b>236.0688</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	65.8136					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2189	1.5268	1.8176	2.9700e-003		0.0941	0.0941		0.0941	0.0941	0.0000	281.4481	281.4481	0.0193		281.9309
<b>Total</b>	<b>66.0325</b>	<b>1.5268</b>	<b>1.8176</b>	<b>2.9700e-003</b>		<b>0.0941</b>	<b>0.0941</b>		<b>0.0941</b>	<b>0.0941</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0193</b>		<b>281.9309</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**3.5 Architectural Coating - 2021**

**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	0.1049	0.0718	0.8102	2.3700e-003	0.1903	1.9900e-003	0.1923	0.0516	1.8300e-003	0.0534		235.8952	235.8952	6.9400e-003		236.0688
<b>Total</b>	<b>0.1049</b>	<b>0.0718</b>	<b>0.8102</b>	<b>2.3700e-003</b>	<b>0.1903</b>	<b>1.9900e-003</b>	<b>0.1923</b>	<b>0.0516</b>	<b>1.8300e-003</b>	<b>0.0534</b>		<b>235.8952</b>	<b>235.8952</b>	<b>6.9400e-003</b>		<b>236.0688</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Unmitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070



2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</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					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

**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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast 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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

2020 Walnut Industrial Park - Off-Road Equipment 4 hour - Los Angeles-South Coast County, Winter

**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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tblProjectCharacteristics

ProjectName	Location	Sc	EMFAC_IC	WindSpeed	Precipitation	ClimateZone	Urbanization	Operational	UtilityCompany
2020	Waln C		LASC	2.2	33	9	Urban	2021	Southern C

tblProjectCharacteristics

CO2Intens	CH4Intensi	N2OIntensi	TotalPopul	TotalLotAc	UsingHisto	ConstructionPhaseStartDate
702.44	0.029	0.006	0	5.9	0	2020/01/01

tblPollutants

PollutantSe	PollutantFu	PollutantName
1	Reactive O	ROG
1	Nitrogen O	NOX
1	Carbon Mo	CO
1	Sulfur Diox	SO2
1	Particulate	PM10
1	Particulate	PM2_5
1	Fugitive PM	PM10_FUG
1	Fugitive PM	PM25_FUG
1	Biogenic C	CO2_BIO
1	Non-Bioge	CO2_NBIO
1	Carbon Dic	CO2
1	Methane (C	CH4
1	Nitrous Oxi	N2O
1	CO2 Equiv	CO2E

tblLandUse

LandUseTy	LandUseSi	LandUseUi	LandUseSi	LotAcreage	LandUseSc	Population	BuildingSp	GreenSpac
Industrial	General Liç	153	1000sqft	3.51	153000	0	153000	0
Parking	Parking Lo	266	Space	2.39	106400	0	106400	0



tblLandUse

RecSwimmingAreaAllowEdit

0

0

## tblConstructionPhase

PhaseNum	PhaseName	PhaseType	PhaseStartDate	PhaseEndDate	NumDaysV	NumDays
1	Grading	Grading	2020/01/01	2020/07/02	5	132
2	Building Constr	Building Constructio	2020/07/03	2021/07/07	5	264
3	Paving	Paving	2021/07/08	2021/08/06	5	22
4	Architectural C	Architectural Coating	2021/08/07	2021/09/07	5	22

PhaseDescription

## tblOffRoadEquipment

PhaseNam	OffRoadEq	OffRoadEq	UsageHou	HorsePow	LoadFactor
Grading	Cranes	1	4	231	0.29
Grading	Crawler Tr	2	4	212	0.43
Grading	Excavators	1	4	158	0.38
Grading	Graders	3	4	187	0.41
Grading	Rollers	1	4	80	0.38
Grading	Rubber Tir	2	4	247	0.4
Grading	Scrapers	3	4	367	0.48
Grading	Tractors/Lc	1	4	97	0.37
Building Cc	Cranes	1	7	231	0.29
Building Cc	Excavators	1	8	158	0.38
Building Cc	Forklifts	3	8	89	0.2
Building Cc	Generator	1	8	84	0.74
Building Cc	Pavers	1	8	130	0.42
Building Cc	Rubber Tir	1	7	203	0.36
Building Cc	Tractors/Lc	2	6	97	0.37
Building Cc	Welders	1	8	46	0.45
Paving	Pavers	1	8	130	0.42
Paving	Paving Equ	1	8	132	0.36
Paving	Rollers	1	8	80	0.38
Paving	Tractors/Lc	1	6	97	0.37
Architectur	Air Compre	1	6	78	0.48

tblTripsAndVMT

PhaseName	WorkerTrips	VendorTrips	HaulingTrips	WorkerVeh	VendorVeh	HaulingTrips	WorkerVeh	VendorVeh
Grading	35	0	6278	14.7	6.9	20	LD_Mix	HDT_Mix
Building Cc	109	43	0	14.7	6.9	20	LD_Mix	HDT_Mix
Paving	10	0	0	14.7	6.9	20	LD_Mix	HDT_Mix
Architectur	22	0	0	14.7	6.9	20	LD_Mix	HDT_Mix

HaulingVehicleClass

HHDT

HHDT

HHDT

HHDT

## tblOnRoadDust

PhaseNam	WorkerPer	VendorPer	HaulingPer	RoadSiltLo	MaterialSilt	MaterialMo	AverageVe	MeanVehic
Grading	100	100	100	0.1	8.5	0.5	2.4	40
Building Cc	100	100	100	0.1	8.5	0.5	2.4	40
Paving	100	100	100	0.1	8.5	0.5	2.4	40
Architectur	100	100	100	0.1	8.5	0.5	2.4	40

tblOnRoadDust

leSpeed



PhaseNam Demolition: DemolitionUnitAmount

tblGrading

PhaseNam	MaterialIm	MaterialEx	GradingSiz	ImportExp	MeanVehic	AcresOfGr	MaterialMo	MaterialMo
Grading	41672	8551	Cubic Yard	0	7.1	242	7.9	12

MaterialSiltContent  
6.9

tblArchitecturalCoating

PhaseNam	Architectur	Architectur	EF_Reside	ConstArea	EF_Reside	ConstArea	EF_Nonres	ConstArea
Architectur:	2014/01/01	3000/12/31	50	0	50	0	100	229500

tblArchitecturalCoating

EF_Nonres	ConstArea	EF_Parking	ConstArea_Parking
100	76500	100	6384

tblPaving

ParkingLotAcreage

tblVehicleTrips

VehicleTrip	VehicleTrip	WD_TR	ST_TR	SU_TR	HW_TL	HS_TL	HO_TL	CC_TL
General Lic	1000sqft	17.44	17.44	17.44	0	0	0	8.4
Parking Lot	Space	0	0	0	0	0	0	8.4

tblVehicleTrips

CW_TL	CNW_TL	PR_TP	DV_TP	PB_TP	HW_TTP	HS_TTP	HO_TTP	CC_TTP
16.6	6.9	92	5	3	0	0	0	28
16.6	6.9	0	0	0	0	0	0	0



tblVehicleTrips

CW_TTP	CNW_TTP
59	13
0	0

## tblVehicleEF

Season	EmissionType	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD
A	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.016318
A	CH4_RUN	0.005916	0.017217	0.007874	0.015092	0.013951	0.005023	0.005701
A	CH4_STRE	0.006188	0.015933	0.007244	0.016038	0.021798	0.009903	0.05397
A	CO_IDLE	0	0	0	0	0.155155	0.1331	0.385208
A	CO_RUN	0.705492	1.843088	0.90067	1.56484	0.942656	0.391895	0.422436
A	CO_STRE	1.271441	3.088242	1.49056	2.7901	3.041802	1.508316	6.846567
A	CO2_NBIC	0	0	0	0	8.907841	13.55329	131.0203
A	CO2_NBIC	285.6298	351.4255	395.4202	528.6542	612.9266	625.7343	1155.794
A	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
A	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.515181
A	NOX_RUN	0.058028	0.173427	0.090103	0.170276	1.05052	0.759021	1.230111
A	NOX_STRE	0.079806	0.178066	0.12225	0.251216	1.070825	0.606563	9.824838
A	PM10_IDL	0	0	0	0	0.000816	0.001176	0.000286
A	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
A	PM10_PMI	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
A	PM10_RUN	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
A	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
A	PM25_IDL	0	0	0	0	0.000781	0.001125	0.000273
A	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
A	PM25_PMI	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
A	PM25_RUN	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
A	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
A	ROG_DIUF	0.042946	0.136272	0.047428	0.069832	0.003313	0.001267	0.001239
A	ROG_HTS	0.110353	0.283562	0.107933	0.161127	0.107793	0.042981	0.049404
A	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.02735
A	ROG_RES	0.039574	0.112426	0.047157	0.072096	0.001991	0.000809	0.000791
A	ROG_RUN	0.014972	0.043105	0.019584	0.043935	0.068819	0.047392	0.04887
A	ROG_RUN	0.041353	0.180715	0.063322	0.090497	0.317993	0.095144	0.023102
A	ROG_STR	0.08346	0.21489	0.097699	0.216402	0.293969	0.133552	0.41972
A	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001263
A	SO2_RUN	0.002862	0.003538	0.003962	0.005299	0.006026	0.006101	0.0111
A	SO2_STRE	0.000614	0.000767	0.000832	0.001113	0.000402	0.000316	0.000771
A	TOG_DIUF	0.042946	0.136272	0.047428	0.069832	0.003313	0.001267	0.001239
A	TOG_HTS	0.110353	0.283562	0.107933	0.161127	0.107793	0.042981	0.049404
A	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.038437
A	TOG_RES	0.039574	0.112426	0.047157	0.072096	0.001991	0.000809	0.000791
A	TOG_RUN	0.021722	0.062692	0.028537	0.061239	0.087991	0.056483	0.058713
A	TOG_RUN	0.041353	0.180715	0.063322	0.090497	0.317993	0.095144	0.023102
A	TOG_STR	0.091375	0.235269	0.106966	0.236866	0.321859	0.146223	0.45954
S	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.01534
S	CH4_RUN	0.00628	0.018101	0.008345	0.015899	0.014292	0.005098	0.005794
S	CH4_STRE	0.005495	0.014073	0.006444	0.014216	0.020974	0.009554	0.051831
S	CO_IDLE	0	0	0	0	0.155155	0.1331	0.280091
S	CO_RUN	0.775608	1.991055	0.985746	1.688322	0.959687	0.395956	0.427986
S	CO_STRE	1.085598	2.618243	1.273982	2.386178	2.898047	1.440531	6.499835
S	CO2_NBIC	0	0	0	0	8.907841	13.55329	138.7679
S	CO2_NBIC	298.9373	366.7329	413.1703	551.8535	612.9266	625.7343	1155.794
S	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
S	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.531759
S	NOX_RUN	0.051041	0.151326	0.079033	0.149247	0.983769	0.715055	1.157056
S	NOX_STRE	0.073858	0.164823	0.113149	0.232538	1.025348	0.583039	9.781589

## tblVehicleEF

S	PM10_IDLI	0	0	0	0	0.000816	0.001176	0.000241
S	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
S	PM10_PM*	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
S	PM10_RUI	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
S	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
S	PM25_IDLI	0	0	0	0	0.000781	0.001125	0.00023
S	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
S	PM25_PM*	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
S	PM25_RUI	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
S	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
S	ROG_DIUF	0.067072	0.212874	0.074017	0.109136	0.004968	0.001888	0.001858
S	ROG_HTS	0.114407	0.296504	0.112072	0.16637	0.111136	0.044332	0.051085
S	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.02572
S	ROG_RES	0.05589	0.159809	0.066314	0.101367	0.002812	0.001134	0.001124
S	ROG_RUN	0.015874	0.045294	0.020749	0.045592	0.069663	0.047578	0.049099
S	ROG_RUN	0.039077	0.167634	0.058865	0.08458	0.308166	0.092007	0.022274
S	ROG_STR	0.074103	0.189795	0.086913	0.191811	0.282858	0.128851	0.403083
S	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001336
S	SO2_RUNI	0.002996	0.003694	0.00414	0.005533	0.006027	0.006101	0.0111
S	SO2_STRE	0.00061	0.000759	0.000828	0.001105	0.000399	0.000315	0.000765
S	TOG_DIUF	0.067072	0.212874	0.074017	0.109136	0.004968	0.001888	0.001858
S	TOG_HTSI	0.114407	0.296504	0.112072	0.16637	0.111136	0.044332	0.051085
S	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.036143
S	TOG_RES	0.05589	0.159809	0.066314	0.101367	0.002812	0.001134	0.001124
S	TOG_RUN	0.023037	0.065886	0.030237	0.063807	0.089223	0.056754	0.059046
S	TOG_RUN	0.039077	0.167634	0.058865	0.08458	0.308166	0.092007	0.022274
S	TOG_STR	0.081132	0.207795	0.095157	0.209951	0.309694	0.141076	0.441325
W	CH4_IDLE	0	0	0	0	0.006012	0.004341	0.017687
W	CH4_RUNI	0.005795	0.016912	0.007719	0.014813	0.013863	0.005003	0.005676
W	CH4_STRE	0.006334	0.016318	0.007415	0.016415	0.02195	0.009973	0.054438
W	CO_IDLEX	0	0	0	0	0.155155	0.1331	0.53219
W	CO_RUNE	0.680068	1.78806	0.869647	1.517433	0.938388	0.390845	0.420917
W	CO_STRE	1.311774	3.189308	1.538253	2.876882	3.061871	1.519471	6.91081
W	CO2_NBIC	0	0	0	0	8.907841	13.55329	120.305
W	CO2_NBIC	280.7615	345.8082	388.8994	520.1447	612.9266	625.7343	1155.794
W	CO2_NBIC	59.19247	71.32174	80.67628	106.3507	34.52236	28.88744	65.07594
W	NOX_IDLE	0	0	0	0	0.069981	0.096715	0.492285
W	NOX_RUN	0.056225	0.168467	0.087358	0.165161	1.030964	0.745256	1.206761
W	NOX_STR	0.081038	0.180824	0.124158	0.255063	1.080199	0.611593	9.834768
W	PM10_IDLI	0	0	0	0	0.000816	0.001176	0.000348
W	PM10_PMI	0.03675	0.03675	0.03675	0.03675	0.07644	0.08918	0.13034
W	PM10_PM*	0.008	0.008	0.008	0.008	0.009978	0.010572	0.012
W	PM10_RUI	0.002229	0.003739	0.002162	0.002428	0.009402	0.009305	0.005641
W	PM10_STF	0.002301	0.003599	0.002349	0.002583	0.001085	0.000506	0.000891
W	PM25_IDLI	0	0	0	0	0.000781	0.001125	0.000333
W	PM25_PMI	0.01575	0.01575	0.01575	0.01575	0.03276	0.03822	0.05586
W	PM25_PM*	0.002	0.002	0.002	0.002	0.002495	0.002643	0.003
W	PM25_RUI	0.002056	0.003444	0.001988	0.00224	0.008967	0.008887	0.005392
W	PM25_STF	0.002116	0.00331	0.00216	0.002378	0.000998	0.000465	0.000819
W	ROG_DIUF	0.04215	0.137379	0.045793	0.066854	0.003502	0.001305	0.00129
W	ROG_HTS	0.119811	0.321902	0.117253	0.172917	0.124353	0.048447	0.053647
W	ROG_IDLE	0	0	0	0	0.017889	0.015135	0.029627

## tblVehicleEF

W	ROG_RES	0.037783	0.107613	0.044991	0.068881	0.001965	0.000788	0.000775
W	ROG_RUN	0.014673	0.042348	0.019198	0.043302	0.068602	0.047343	0.048807
W	ROG_RUN	0.046904	0.213075	0.074247	0.105175	0.344543	0.103469	0.025358
W	ROG_STR	0.085422	0.220077	0.100001	0.221498	0.296019	0.134493	0.423363
W	SO2_IDLE	0	0	0	0	0.00009	0.000133	0.001163
W	SO2_RUN	0.002813	0.003481	0.003896	0.005213	0.006026	0.006101	0.0111
W	SO2_STR	0.000614	0.000769	0.000833	0.001114	0.000402	0.000317	0.000772
W	TOG_DIUF	0.04215	0.137379	0.045793	0.066854	0.003502	0.001305	0.00129
W	TOG_HTS	0.119811	0.321902	0.117253	0.172917	0.124353	0.048447	0.053647
W	TOG_IDLE	0	0	0	0	0.025012	0.020493	0.041642
W	TOG_RES	0.037783	0.107613	0.044991	0.068881	0.001965	0.000788	0.000775
W	TOG_RUN	0.021285	0.061589	0.027975	0.060292	0.087674	0.056412	0.058621
W	TOG_RUN	0.046904	0.213075	0.074247	0.105175	0.344543	0.103469	0.025358
W	TOG_STR	0.093524	0.240948	0.109487	0.242444	0.324104	0.147253	0.463529

## tblVehicleEF

HHD	OBUS	UBUS	MCY	SBUS	MH
0.651197	0.012762	0	0	0.863641	0
0.09494	0.008872	2.778735	0.534506	0.013361	0.036099
0.086016	0.029109	0.049776	0.151217	0.067768	0.026881
2.605315	0.286349	0	0	8.042127	0
1.159767	0.60125	11.78693	19.19611	0.785336	2.76505
3.360716	5.752575	8.900619	9.643796	7.53067	6.407564
4729.347	111.8008	0	0	1136.989	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
21.62864	0.583303	0	0	9.908456	0
4.197531	1.731991	10.67848	1.13352	4.548615	1.168972
19.56714	2.632791	15.65686	0.30998	12.41706	0.854997
0.016761	0.000204	0	0	0.010706	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.016036	0.000195	0	0	0.010243	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.000111	0.001471	0.00416	1.066547	0.003387	1.066757
0.004872	0.017284	0.069674	0.646316	0.029255	0.075311
0.649806	0.041181	0	0	0.96895	0
0.000083	0.000778	0.002358	0.653553	0.001716	0.449872
0.152693	0.067023	0.903175	2.613057	0.111045	0.102494
0.000432	0.038915	0.022165	0.615178	0.014506	0.020596
0.087975	0.360714	0.671285	2.061965	0.395249	0.362517
0.043688	0.001079	0	0	0.011122	0
0.015296	0.012315	0.009929	0.002278	0.010489	0.011293
0.000161	0.000784	0.001086	0.000667	0.000666	0.000722
0.000111	0.001471	0.00416	1.066547	0.003387	1.066757
0.004872	0.017284	0.069674	0.646316	0.029255	0.075311
0.759127	0.055684	0	0	1.397717	0
0.000083	0.000778	0.002358	0.653553	0.001716	0.449872
0.262142	0.081466	3.787189	3.245722	0.133774	0.14479
0.000432	0.038915	0.022165	0.615178	0.014506	0.020596
0.096322	0.394936	0.734972	2.244365	0.432748	0.39691
0.61396	0.012722	0	0	0.863329	0
0.094977	0.009025	2.782295	0.523473	0.013578	0.037504
0.082572	0.027923	0.045525	0.134696	0.060245	0.025684
1.896314	0.270132	0	0	7.919084	0
1.16632	0.61024	11.83939	18.4806	0.797379	2.850069
3.189535	5.434483	7.707898	8.818072	6.109907	6.021578
5008.693	117.4477	0	0	1188.841	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
22.31968	0.601992	0	0	10.2247	0
3.970065	1.628864	10.06631	0.988976	4.287969	1.072765
19.55521	2.591449	15.60696	0.293553	12.38712	0.81639

## tblVehicleEF

0.014385	0.000172	0	0	0.009025	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.013762	0.000164	0	0	0.008635	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.00017	0.002155	0.005926	1.733145	0.004994	1.578317
0.004998	0.01773	0.070758	0.709345	0.02993	0.07633
0.61282	0.04039	0	0	0.966046	0
0.000121	0.001101	0.003245	1.083908	0.002454	0.645406
0.152785	0.067402	0.911984	2.54911	0.111582	0.105969
0.000421	0.037867	0.020518	0.577812	0.012931	0.02016
0.084453	0.346013	0.613963	1.836553	0.351374	0.34638
0.046268	0.001133	0	0	0.011617	0
0.015296	0.012315	0.00993	0.002264	0.010489	0.011294
0.000158	0.000779	0.001065	0.000647	0.000642	0.000715
0.00017	0.002155	0.005926	1.733145	0.004994	1.578317
0.004998	0.01773	0.070758	0.709345	0.02993	0.07633
0.715905	0.054783	0	0	1.394412	0
0.000121	0.001101	0.003245	1.083908	0.002454	0.645406
0.262276	0.082019	3.800043	3.168519	0.134558	0.149861
0.000421	0.037867	0.020518	0.577812	0.012931	0.02016
0.092465	0.378841	0.672212	1.999088	0.38471	0.379242
0.702618	0.012817	0	0	0.864072	0
0.09493	0.008831	2.777857	0.536521	0.013299	0.035727
0.086725	0.02938	0.050649	0.154332	0.069395	0.027089
3.584411	0.308745	0	0	8.212044	0
1.158018	0.598883	11.77415	19.2991	0.781918	2.743029
3.390973	5.814096	9.114083	9.782006	7.779377	6.460403
4343.583	104.0028	0	0	1065.384	0
1660.443	1266.647	1987.477	188.4697	1088.609	1135.334
10.55437	68.32333	92.57664	44.88397	53.57132	61.01176
20.67434	0.557494	0	0	9.471745	0
4.12535	1.700146	10.4743	1.106444	4.470259	1.145442
19.56981	2.642245	15.66808	0.313502	12.42544	0.862933
0.020042	0.000248	0	0	0.013027	0
0.060887	0.13034	0.624107	0.01176	0.7448	0.13034
0.035344	0.012	0.012	0.004	0.010708	0.012794
0.01786	0.008702	0.139886	0.002383	0.02541	0.019794
0.000088	0.000789	0.001032	0.003957	0.00078	0.001219
0.019175	0.000237	0	0	0.012464	0
0.026094	0.05586	0.267474	0.00504	0.3192	0.05586
0.008836	0.003	0.003	0.001	0.002677	0.003199
0.017087	0.00831	0.133803	0.002228	0.024296	0.018885
0.000081	0.000725	0.000949	0.003729	0.000717	0.001121
0.00011	0.001518	0.004746	1.163123	0.003505	1.212111
0.005238	0.018334	0.086222	0.836454	0.030957	0.094453
0.700882	0.042274	0	0	0.97296	0

tblVehicleEF

0.000081	0.000758	0.002484	0.624422	0.001651	0.463695
0.152668	0.066921	0.901001	2.624609	0.110892	0.101571
0.000468	0.041781	0.026048	0.706413	0.017988	0.021728
0.0887	0.364066	0.683057	2.10445	0.404743	0.36532
0.040125	0.001004	0	0	0.010439	0
0.015296	0.012315	0.009929	0.00228	0.010489	0.011293
0.000161	0.000785	0.00109	0.000671	0.00067	0.000722
0.00011	0.001518	0.004746	1.163123	0.003505	1.212111
0.005238	0.018334	0.086222	0.836454	0.030957	0.094453
0.818814	0.056928	0	0	1.402282	0
0.000081	0.000758	0.002484	0.624422	0.001651	0.463695
0.262105	0.081318	3.784017	3.259692	0.133551	0.143444
0.000468	0.041781	0.026048	0.706413	0.017988	0.021728
0.097115	0.398606	0.747861	2.290602	0.443143	0.39998

tblRoadDust

RoadPerce	RoadSiltLo	MaterialSilt	MaterialMo	MobileAver	MeanVehic	CARB_PM_VMT
100	0.1	4.3	0.5	2.4	40	0



tblWoodstoves

Woodstove NumberCo NumberCa NumberNo NumberPe Woodstove WoodstoveWoodMass

tblFireplaces

FireplacesI NumberWc NumberGa NumberPrc NumberNo FireplaceH FireplaceD FireplaceWoodMass

tblConsumerProducts

ROG_EF	ROG_EF_I	ROG_EF_Pesticides	Fertilizers
1.98E-05	3.54E-07	5.15E-08	

tblAreaCoating

Area_EF_F	Area_Resi	Area_EF_F	Area_Resi	Area_EF_N	Area_Nonr	Area_EF_N	Area_Nonr	Reapplicati
50	0	50	0	100	229500	100	76500	10

tblAreaCoating

Area_EF_F	Area_Parking
100	6384

tblLandscapeEquipment

NumberSn	NumberSummerDays
0	250

tblEnergyUse

EnergyUse	T24E	NT24E	LightingEle	T24NG	NT24NG
General Liç	2.25	5.75	3.1	13.65	4.45
Parking Lo	0	0	0.35	0	0

tblWater

WaterLand	WaterLand	IndoorWater	OutdoorWater	Electricity	Electricity	Electricity	Electricity	SepticTank
General Lic	1000sqft	35381250	0	9727	111	1272	1911	10.33
Parking Lot	Space	0	0	9727	111	1272	1911	10.33



tblWater

AerobicPer	Anaerobic	AnaDigest	AnaDigest	Cogen	Comb	Digest	Gas	Percent
87.46	2.21	100	0					
87.46	2.21	100	0					

tblSolidWaste

SolidWaste	SolidWaste	SolidWaste	LandfillNoC	LandfillCap	LandfillCaptureGas	EnergyRecovery
General Lic 1000sqft		189.72	6	94	0	
Parking Lot Space		0	6	94	0	

tblLandUseChange

Vegetation|Vegetation|AcresBegin AcresEnd CO2peracre

BroadSpec NumberOf CO2perTree

## tblConstEquipMitigation

ConstMitig; FuelType	Tier	NumberOf	TotalNumb	DPF	OxidationCatalyst
Air Compr Diesel	No Change	0	1	No Change	0
Cranes Diesel	No Change	0	2	No Change	0
Crawler Tr Diesel	No Change	0	2	No Change	0
Excavators Diesel	No Change	0	2	No Change	0
Forklifts Diesel	No Change	0	3	No Change	0
Generator Diesel	No Change	0	1	No Change	0
Graders Diesel	No Change	0	3	No Change	0
Pavers Diesel	No Change	0	2	No Change	0
Paving Equ Diesel	No Change	0	1	No Change	0
Rollers Diesel	No Change	0	2	No Change	0
Rubber Tir Diesel	No Change	0	2	No Change	0
Rubber Tir Diesel	No Change	0	1	No Change	0
Scrapers Diesel	No Change	0	3	No Change	0
Tractors/Lc Diesel	No Change	0	4	No Change	0
Welders Diesel	No Change	0	1	No Change	0

tblConstDustMitigation

SoilStabiliz	SoilStabiliz	SoilStabiliz	ReplaceGr	ReplaceGr	ReplaceGr	WaterExpc	WaterExpc	WaterExpc
0	0	0	1	5	5	1	3	61

tblConstDustMitigation

WaterExpc	WaterUnpæ	WaterUnpæ	WaterUnpæ	WaterUnpæ	CleanPavedRoadPercentReduction
61	1	1	12	15	26

tblLandUseMitigation

ProjectSett IncreaseD€ IncreaseD€ IncreaseD€ IncreaseDi ImproveW€ ImproveW€ ImproveDe ImproveDe



tblLandUseMitigation

IncreaseTr IncreaseTr IntegrateBκ IntegrateBκ ImprovePe ImprovePe ProvideTra ProvideTra ProvideTra

tblLandUseMitigation

Implementl LimitParkin LimitParkin UnbundleP UnbundleP OnStreetM OnStreetM ProvideBR' ProvideBR'

tblLandUseMitigation

ExpandTra ExpandTra IncreaseTr IncreaseTr IncreaseTransitFrequencyHeadwaysPercentReduction

tblCommuterMitigation

Implement	Implement	Implement	TransitSub	TransitSub	TransitSub	Implement	Implement	Workplace
0			0			0		0

tblCommuteMitigation

Workplace	Workplace	Encourage	Encourage	Encourage	Encourage	MarketCon	MarketCon	EmployeeV
		0				0		0

tblCommuteMitigation

Employee\	Employee\	ProvideRid	ProvideRid	Implement!	Implement	SchoolBusProgram	PercentFamilyL
	2		0		0		

Jsing

tblAreaMitigation

Landscape	Landscape	Landscape	Landscape	Landscape	Landscape	UseLowVC	UseLowVC	UseLowVC
0	0	0	0	0	0	0	50	0



tblAreaMitigation

UseLowVC	UseLowVC	UseLowVC	UseLowVC	UseLowVC	HearthOnly	NoHearthC	UseLowVC	UseLowVC
50	0	100	0	100	0	1	0	0

UseLowVOCPaintParkingValue  
100

tblEnergyMitigation

ExceedTitl ExceedTitl InstallHigh InstallHigh OnSiteRen KwhGener: KwhGener: PercentOfE PercentOfE

ElectricityUseGenerated

tblApplianceMitigation

ApplianceT	ApplianceL	PercentImprovement
ClothWasher		30
DishWasher		15
Fan		50
Refrigerator		15

tblWaterMitigation

ApplyWate	ApplyWate	ApplyWate	UseReclair	PercentOu	PercentInd	UseGreyW	PercentOu	PercentInd
0			0			0		

tblWaterMitigation

InstallLowF	PercentRe	InstallLowF	PercentRe	InstallLowF	PercentRe	InstallLowF	PercentRe	TurfReduct
0	32	0	18	0	20	0	20	0

tblWaterMitigation

TurfReduct	TurfReduct	UseWaterE	UseWaterE	WaterEffici	MAWA	ETWU
		0	6.1	0		



tblWasteMitigation

InstituteRe	InstituteRecyclingAndCompostingServicesWastePercentReduction
1	50

tblOperationalOffRoadEquipment

OperOffRo OperOffRo OperHours OperDaysF OperHorse OperLoadF OperFuelType

tblFleetMix

FleetMixLa LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	
General Liç	0.547192	0.045177	0.202743	0.12151	0.016147	0.006143	0.019743	0.029945
Parking Lo	0.547192	0.045177	0.202743	0.12151	0.016147	0.006143	0.019743	0.029945

tblFleetMix

OBUS	UBUS	MCY	SBUS	MH
0.002479	0.00227	0.005078	0.000682	0.000891
0.002479	0.00227	0.005078	0.000682	0.000891

tblStationaryGeneratorsPumpsUse

Generators NumberOf Generators HorsePower Load\_Fact HoursPerD HoursPerY GeneratorsPumpsEqui

ipmentDescription

tblStationaryBoilersUse

BoilerEquip NumberOf Boile FuelT Boile Ratin DailyHeatlr AnnualHea BoilerEquipmentDescription

tblStationaryUserDefined

UserDefine UserDefine TOG\_lb\_d: TOG\_tpy ROG\_lb\_d: ROG\_tpy CO\_lb\_day CO\_tpy NOX\_lb\_d:



tblStationaryUserDefined

NOX\_tpy SO2\_lb\_da SO2\_tpy PM10\_lb\_c PM10\_tpy PM2\_5\_lb\_ PM2\_5\_tpy CO2\_lb\_dε CO2\_tpy

tblStationaryUserDefined

CH4\_lb\_da CH4\_tpy

tblStationaryGeneratorsPumpsEF

Generators TOG\_EF TOG\_EF\_I ROG\_EF ROG\_EF\_I CO\_EF\_U NOX\_EF NOX\_EF\_U

tblStationaryGeneratorsPumpsEF

SO2\_EF SO2\_EF\_L PM10\_EF PM10\_EF\_PM2\_5\_EF PM2\_5\_EF CO2\_EF CO2\_EF\_L CH4\_EF

CH4\_EF\_UOM

tblStationaryBoilersEF

BoilerEquip TOG\_EF TOG\_EF\_I ROG\_EF ROG\_EF\_I CO\_EF CO\_EF\_U NOX\_EF NOX\_EF\_U

tblStationaryBoilersEF

SO2\_EF SO2\_EF\_L PM10\_EF PM10\_EF\_PM2\_5\_EF PM2\_5\_EF CO2\_EF CO2\_EF\_L CH4\_EF

CH4\_EF\_UOM



tblRemarks

SubModule	PhaseNam	Season	Remarks
1			
3			Per GAA Architects Sheet No. A1.0, total building area for nine light ir
4			Per construction questionnaire.
5	Architectural Coating		
5	Building Construction		Per construction questionnaire.
5	Grading		Per construction questionnaire. Grading Equipment limited to 4 hours
5	Paving		Per construction questionnaire.
6			6,278 trips hauling
9			41,672 import of dirt and 8,551 export of dirt
12			Per Traffic Impact Analysis.
25			Per SCAQMD standards and regulations.
29			
30			
33			

tblRemarks

Industrial buildings is 153,000 square feet and parking provided is 266 spaces.

s per day.

**Table 7**

**Construction-Related Criteria Pollutant Emissions Prior to Mitigation**

Activity	Pollutant Emissions (pounds/day)					
	ROG	Nox	CO	SO2	PM10	PM2.5
<b>Grading Unmitigated</b>						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
<b>Total</b>	<b>7.45</b>	<b>98.75</b>	<b>44.21</b>	<b>0.15</b>	<b>9.55</b>	<b>5.39</b>
<b>Grading Mitigated with Tier 4 Final Off-Road Equipment</b>						
On-Site	1.19	6.04	41.19	0.09	5.23	2.25
Off-Site	0.82	20.91	6.23	0.06	1.37	0.43
<b>Total</b>	<b>2.01</b>	<b>26.95</b>	<b>47.42</b>	<b>0.15</b>	<b>6.60</b>	<b>2.68</b>
<b>Grading Mitigated with all Off-Road Equipment operating for 4 hours per day or less</b>						
On-Site	4.42	51.89	25.32	0.06	4.35	2.86
Off-Site	0.60	13.98	4.62	0.04	1.02	0.32
<b>Total</b>	<b>5.02</b>	<b>65.87</b>	<b>29.94</b>	<b>0.10</b>	<b>5.37</b>	<b>3.18</b>
<b>Grading - Mitigated with 2010 or newer haul trucks</b>						
On-Site	6.63	77.84	37.98	0.09	8.18	4.96
Off-Site from CalEEMod	0.18	0.13	1.53	0.00	0.31	0.09
Off-Site Haul Trucks (EMF)	0.19	9.60	0.93	0.04	0.38	0.18
<b>Total</b>	<b>7.00</b>	<b>87.57</b>	<b>40.44</b>	<b>0.13</b>	<b>8.87</b>	<b>5.23</b>

**Table 9**

**Local Construction Emissions at the School to the Southeast<sup>1</sup>**

Phase	On-Site Pollutant Emissions (pounds/day)			
	NOx	CO	PM10	PM2.5
Grading Unmitigated	77.84	37.98	8.18	4.96
Grading Mitigated with Tier 4 Final Off-Road Equipment	6.04	41.19	5.23	2.25
Grading Mitigated with all Off-Road Equipment operating for 4 ho	51.89	25.32	4.35	2.86
Grading - Mitigated with 2010 or newer haul trucks	77.84	37.98	8.18	4.96
<b>SCAQMD Threshold for 25 meters (82 feet)<sup>2</sup></b>	<b>123</b>	<b>1,530</b>	<b>14</b>	<b>8</b>
Exceeds Threshold?	no	no	<b>no</b>	no

<sup>1</sup> Source: Calculated from CalEEMod and SCAQMD's Mass Rate Look-up Tables for five acres in Southwest San Bernardino Valley.

<sup>2</sup> The estimated distance from the proposed grading activities to the existing homes north of the project site is 213 meters or 700 feet.

## EMFAC2017 EMISSION RATES

EMFAC2017 (v1.0.2) Emission Rates

Region Type: Sub-Area

Region: Los Angeles (SC)

Calendar Year: 2020

Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for VMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HT:

Region	Calendar Year	Vehicle Cat	Model Year	Speed	Fuel	Population	VMT	Trips
Los Angeles	2020	HHDT	2010	Aggregate	DSL	2414.457	270680.3	23026.56
Los Angeles	2020	HHDT	2011	Aggregate	DSL	2937.943	326348.9	27801.24
Los Angeles	2020	HHDT	2012	Aggregate	DSL	7462.78	600766.1	71751.02
Los Angeles	2020	HHDT	2013	Aggregate	DSL	3791.458	468589	39464.97
Los Angeles	2020	HHDT	2014	Aggregate	DSL	3844.881	531112.8	41971.94
Los Angeles	2020	HHDT	2015	Aggregate	DSL	4432.769	703904.6	51363.32
Los Angeles	2020	HHDT	2016	Aggregate	DSL	6069.926	1077660	72577.64
Los Angeles	2020	HHDT	2017	Aggregate	DSL	2693.838	369705	24496.21
Los Angeles	2020	HHDT	2018	Aggregate	DSL	2005.235	350416.4	21435.94
Los Angeles	2020	HHDT	2019	Aggregate	DSL	2032.739	360133.4	21548.36
Los Angeles	2020	HHDT	2020	Aggregate	DSL	1378.287	234078.6	14108.56

Average

SK and RUNLS, g/vehicle/day for IDLEX, RESTL and DIURN

ROG_RUNE	ROG_IDLEX	ROG_STRE	ROG_HOTS	ROG_RUNL	ROG_RESTI	ROG_DIUR	TOG_RUNE	TOG_IDLEX
0.38673	3.905112	0	0	0	0	0	0.440262	4.445672
0.132597	3.818588	0	0	0	0	0	0.150952	4.347172
0.023163	3.283722	0	0	0	0	0	0.02637	3.738267
0.022388	4.524914	0	0	0	0	0	0.025487	5.15127
0.018601	5.180924	0	0	0	0	0	0.021176	5.898087
0.017057	6.125237	0	0	0	0	0	0.019418	6.973116
0.016242	7.015815	0	0	0	0	0	0.018491	7.986972
0.015387	5.061957	0	0	0	0	0	0.017517	5.762653
0.014629	6.247675	0	0	0	0	0	0.016655	7.112502
0.013713	6.310084	0	0	0	0	0	0.015611	7.18355
0.012781	5.826958	0	0	0	0	0	0.01455	6.633548

0.061208

TOG_STRE	TOG_HOTS	TOG_RUNL	TOG_RESTI	TOG_DIURI	CO_RUNEX	CO_IDLEX	CO_STREX	NOx_RUNE
0	0	0	0	0	1.034625	21.8662	0	8.328735
0	0	0	0	0	0.482716	48.88569	0	4.906739
0	0	0	0	0	0.267454	48.51968	0	3.833634
0	0	0	0	0	0.258295	66.85931	0	3.601134
0	0	0	0	0	0.211159	76.55239	0	2.480951
0	0	0	0	0	0.190991	90.5054	0	2.128406
0	0	0	0	0	0.181241	103.6644	0	1.983241
0	0	0	0	0	0.17385	74.79456	0	1.806097
0	0	0	0	0	0.165504	92.31452	0	1.664838
0	0	0	0	0	0.155105	93.23666	0	1.496307
0	0	0	0	0	0.144874	86.09808	0	1.323647
					0.296931			3.050339



NOx_IDLEX	NOx_STRE	CO2_RUNE	CO2_IDLEX	CO2_STRE	CH4_RUNE	CH4_IDLEX	CH4_STRE	PM10_RUNEX
70.11591	0.306672	1847.037	12578.62	0	0.017963	0.181382	0	0.062089093
51.28253	1.789409	1726.733	11100.92	0	0.006159	0.177364	0	0.048172203
38.80353	2.722866	1661.949	9263.474	0	0.001076	0.15252	0	0.026232043
53.47062	2.331946	1643.539	12764.91	0	0.00104	0.210171	0	0.024924249
61.22265	2.411748	1355.44	12720.84	0	0.000864	0.24064	0	0.018868948
72.38154	2.391678	1323.683	15039.43	0	0.000792	0.284501	0	0.016761295
82.90545	2.40564	1320.984	17226.09	0	0.000754	0.325866	0	0.015273833
59.81683	2.661134	1293.45	12071.18	0	0.000715	0.235115	0	0.012881976
73.82838	2.466669	1262.794	14898.74	0	0.00068	0.290188	0	0.011296856
74.56586	2.479813	1262.358	15047.56	0	0.000637	0.293087	0	0.00945773
68.85679	2.521186	1265.123	13895.46	0	0.000594	0.270647	0	0.007503974
		1451.19			0.002843			0.023042018

PM10_IDLE	PM10_STR	PM10_PMTW	PM10_PMBW	PM2_5_RUNEX	PM2_5_IDLEX	PM2_5_STI
0.016878	0	0.035792462	0.061384073	0.059403146	0.016148266	0
0.016306	0	0.035695779	0.06121826	0.046088295	0.015600325	0
0.013975	0	0.035357011	0.060637275	0.025097257	0.013370393	0
0.019257	0	0.035619265	0.061087039	0.023846037	0.018424179	0
0.022049	0	0.035628954	0.061103656	0.018052686	0.021095266	0
0.026068	0	0.035725578	0.061269366	0.016036209	0.024940246	0
0.029858	0	0.03574097	0.061295764	0.014613094	0.02856643	0
0.021543	0	0.035690323	0.061208904	0.012324708	0.020610867	0
0.026589	0	0.035671567	0.061176738	0.010808159	0.025438777	0
0.026855	0	0.035671861	0.061177242	0.009048593	0.025692887	0
0.024799	0	0.035615839	0.061081163	0.007179356	0.023725735	0
		0.035655419	0.061149044	0.022045231		

PM2_5_PMTW	PM2_5_PMBW	SOx_RUNEX	SOx_IDLEX	SOx_STREX	N2O_RUNE	N2O_IDLEX	N2O_STREX
0.008948116	0.02630746	0.017449886	0.118837	0	0.290328	1.977184	0
0.008923945	0.026236397	0.016313315	0.104876	0	0.271418	1.74491	0
0.008839253	0.025987403	0.015701266	0.087517	0	0.261235	1.456089	0
0.008904816	0.02618016	0.015527345	0.120597	0	0.258342	2.006467	0
0.008907238	0.026187281	0.012805528	0.12018	0	0.213056	1.999538	0
0.008931394	0.0262583	0.012505505	0.142085	0	0.208065	2.363989	0
0.008935243	0.026269613	0.012480002	0.162744	0	0.20764	2.707701	0
0.008922581	0.026232387	0.012219871	0.114042	0	0.203312	1.897421	0
0.008917892	0.026218602	0.011930249	0.140756	0	0.198494	2.341874	0
0.008917965	0.026218818	0.011926132	0.142162	0	0.198425	2.365268	0
0.00890396	0.026177641	0.011952254	0.131277	0	0.19886	2.184173	0
0.008913855	0.026206733	0.013710123					

03-29-2019 CalEEMod Worksheets

2020 Walnut Industrial Park - Los Angeles-South Coast County, Winter

**2020 Walnut Industrial Park**  
**Los Angeles-South Coast County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<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**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

## **2.0 Emissions Summary**

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2020 Walnut Industrial Park - Los Angeles-South Coast 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
<b>Total</b>	<b>9.2609</b>	<b>30.3762</b>	<b>84.4931</b>	<b>0.3032</b>	<b>25.1259</b>	<b>0.3145</b>	<b>25.4405</b>	<b>6.7244</b>	<b>0.2975</b>	<b>7.0219</b>		<b>31,273.5589</b>	<b>31,273.5589</b>	<b>1.6259</b>	<b>0.0164</b>	<b>31,319.0827</b>

## 2020 Walnut Industrial Park - Los Angeles-South Coast 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
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

#### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile



2020 Walnut Industrial Park - Los Angeles-South Coast 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	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778
Unmitigated	5.7113	29.6320	83.8253	0.2987	25.1259	0.2579	25.3838	6.7244	0.2408	6.9652		30,380.8644	30,380.8644	1.6085		30,421.0778

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Los Angeles-South Coast County, Winter

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

2020 Walnut Industrial Park - Los Angeles-South Coast 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					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</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					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Winter

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

**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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

2020 Walnut Industrial Park - Los Angeles-South Coast 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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Winter

**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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2020 Walnut Industrial Park - Los Angeles-South Coast County, Summer

**2020 Walnut Industrial Park**  
**Los Angeles-South Coast County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<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**

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

**2.0 Emissions Summary**

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2020 Walnut Industrial Park - Los Angeles-South Coast 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
<b>Total</b>	<b>9.4246</b>	<b>29.4766</b>	<b>89.8009</b>	<b>0.3184</b>	<b>25.1259</b>	<b>0.3135</b>	<b>25.4394</b>	<b>6.7244</b>	<b>0.2965</b>	<b>7.0209</b>		<b>32,800.8711</b>	<b>32,800.8711</b>	<b>1.6404</b>	<b>0.0164</b>	<b>32,846.7580</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Energy	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
Mobile	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
<b>Total</b>	<b>9.4246</b>	<b>29.4766</b>	<b>89.8009</b>	<b>0.3184</b>	<b>25.1259</b>	<b>0.3135</b>	<b>25.4394</b>	<b>6.7244</b>	<b>0.2965</b>	<b>7.0209</b>		<b>32,800.8711</b>	<b>32,800.8711</b>	<b>1.6404</b>	<b>0.0164</b>	<b>32,846.7580</b>



## 2020 Walnut Industrial Park - Los Angeles-South Coast 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
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

#### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile

2020 Walnut Industrial Park - Los Angeles-South Coast 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	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532
Unmitigated	5.8750	28.7324	89.1331	0.3140	25.1259	0.2568	25.3828	6.7244	0.2398	6.9642		31,908.1766	31,908.1766	1.6231		31,948.7532

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

2020 Walnut Industrial Park - Los Angeles-South Coast County, Summer

**5.0 Energy Detail**

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Historical Energy Use: N

**5.1 Mitigation Measures Energy**

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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	lb/day										lb/day					
NaturalGas Mitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
NaturalGas Unmitigated	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070

2020 Walnut Industrial Park - Los Angeles-South Coast 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					
General Light Industry	7587.12	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</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					
General Light Industry	7.58712	0.0818	0.7438	0.6248	4.4600e-003		0.0565	0.0565		0.0565	0.0565		892.6027	892.6027	0.0171	0.0164	897.9070
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>0.0818</b>	<b>0.7438</b>	<b>0.6248</b>	<b>4.4600e-003</b>		<b>0.0565</b>	<b>0.0565</b>		<b>0.0565</b>	<b>0.0565</b>		<b>892.6027</b>	<b>892.6027</b>	<b>0.0171</b>	<b>0.0164</b>	<b>897.9070</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Summer

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
Unmitigated	3.4678	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978

**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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

2020 Walnut Industrial Park - Los Angeles-South Coast 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	0.3967					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.0671					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	4.0100e-003	3.9000e-004	0.0430	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004		0.0917	0.0917	2.4000e-004		0.0978
<b>Total</b>	<b>3.4678</b>	<b>3.9000e-004</b>	<b>0.0430</b>	<b>0.0000</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>1.5000e-004</b>	<b>1.5000e-004</b>		<b>0.0917</b>	<b>0.0917</b>	<b>2.4000e-004</b>		<b>0.0978</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Summer

**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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## 2020 Walnut Industrial Park - Los Angeles-South Coast County, Annual

**2020 Walnut Industrial Park**  
**Los Angeles-South Coast County, Annual**

## 1.0 Project Characteristics

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### 1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	153.00	1000sqft	3.51	153,000.00	0
Parking Lot	266.00	Space	2.39	106,400.00	0

### 1.2 Other Project Characteristics

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	33
<b>Climate Zone</b>	9			<b>Operational Year</b>	2021
<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

Project Characteristics -

Land Use - Per GAA Architects Sheet No. A1.0, total building area for nine light industrial buildings is 153,000 square feet and parking provided is 266 spaces.

## 2.0 Emissions Summary

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2020 Walnut Industrial Park - Los Angeles-South Coast County, Annual

**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	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	38.5115	0.0000	38.5115	2.2760	0.0000	95.4105
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
<b>Total</b>	<b>1.6674</b>	<b>5.6317</b>	<b>15.6344</b>	<b>0.0559</b>	<b>4.4846</b>	<b>0.0571</b>	<b>4.5418</b>	<b>1.2022</b>	<b>0.0540</b>	<b>1.2562</b>	<b>49.7363</b>	<b>5,931.4226</b>	<b>5,981.1589</b>	<b>3.7258</b>	<b>0.0359</b>	<b>6,085.0043</b>

2020 Walnut Industrial Park - Los Angeles-South Coast 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	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Energy	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	700.7606	700.7606	0.0257	7.4300e-003	703.6171
Mobile	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Waste						0.0000	0.0000		0.0000	0.0000	19.2557	0.0000	19.2557	1.1380	0.0000	47.7052
Water						0.0000	0.0000		0.0000	0.0000	11.2248	146.7887	158.0135	1.1590	0.0285	195.4734
<b>Total</b>	<b>1.6674</b>	<b>5.6317</b>	<b>15.6344</b>	<b>0.0559</b>	<b>4.4846</b>	<b>0.0571</b>	<b>4.5418</b>	<b>1.2022</b>	<b>0.0540</b>	<b>1.2562</b>	<b>30.4806</b>	<b>5,931.4226</b>	<b>5,961.9032</b>	<b>2.5878</b>	<b>0.0359</b>	<b>6,037.2991</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>38.72</b>	<b>0.00</b>	<b>0.32</b>	<b>30.54</b>	<b>0.00</b>	<b>0.78</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

2020 Walnut Industrial Park - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923
Unmitigated	1.0199	5.4959	15.5150	0.0551	4.4846	0.0468	4.5314	1.2022	0.0437	1.2458	0.0000	5,083.8630	5,083.8630	0.2652	0.0000	5,090.4923

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	2,668.32	2,668.32	2668.32	11,816,061	11,816,061
Parking Lot	0.00	0.00	0.00		
Total	2,668.32	2,668.32	2,668.32	11,816,061	11,816,061

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 Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891
Parking Lot	0.547192	0.045177	0.202743	0.121510	0.016147	0.006143	0.019743	0.029945	0.002479	0.002270	0.005078	0.000682	0.000891

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**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	552.9802	552.9802	0.0228	4.7200e-003	554.9585
NaturalGas Mitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
NaturalGas Unmitigated	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586

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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 Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
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>0.0149</b>	<b>0.1358</b>	<b>0.1140</b>	<b>8.1000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>147.7804</b>	<b>147.7804</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6586</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 Light Industry	2.7693e+006	0.0149	0.1358	0.1140	8.1000e-004		0.0103	0.0103		0.0103	0.0103	0.0000	147.7804	147.7804	2.8300e-003	2.7100e-003	148.6586
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>0.0149</b>	<b>0.1358</b>	<b>0.1140</b>	<b>8.1000e-004</b>		<b>0.0103</b>	<b>0.0103</b>		<b>0.0103</b>	<b>0.0103</b>	<b>0.0000</b>	<b>147.7804</b>	<b>147.7804</b>	<b>2.8300e-003</b>	<b>2.7100e-003</b>	<b>148.6586</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 Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
<b>Total</b>		<b>552.9802</b>	<b>0.0228</b>	<b>4.7200e-003</b>	<b>554.9585</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	1.6983e+006	541.1148	0.0223	4.6200e-003	543.0506
Parking Lot	37240	11.8655	4.9000e-004	1.0000e-004	11.9079
<b>Total</b>		<b>552.9802</b>	<b>0.0228</b>	<b>4.7200e-003</b>	<b>554.9585</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
Unmitigated	0.6326	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111

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	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
<b>Total</b>	<b>0.6326</b>	<b>5.0000e-005</b>	<b>5.3700e-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>0.0000</b>	<b>0.0104</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0111</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	0.0724					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.5597					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	5.0000e-004	5.0000e-005	5.3700e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	0.0104	0.0104	3.0000e-005	0.0000	0.0111
<b>Total</b>	<b>0.6326</b>	<b>5.0000e-005</b>	<b>5.3700e-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>0.0000</b>	<b>0.0104</b>	<b>0.0104</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.0111</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	158.0135	1.1590	0.0285	195.4734
Unmitigated	158.0135	1.1590	0.0285	195.4734

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>158.0135</b>	<b>1.1590</b>	<b>0.0285</b>	<b>195.4734</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	35.3813 / 0	158.0135	1.1590	0.0285	195.4734
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>158.0135</b>	<b>1.1590</b>	<b>0.0285</b>	<b>195.4734</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

2020 Walnut Industrial Park - Los Angeles-South Coast County, Annual

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	19.2557	1.1380	0.0000	47.7052
Unmitigated	38.5115	2.2760	0.0000	95.4105

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	189.72	38.5115	2.2760	0.0000	95.4105
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>38.5115</b>	<b>2.2760</b>	<b>0.0000</b>	<b>95.4105</b>

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**8.2 Waste by Land Use**

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	94.86	19.2557	1.1380	0.0000	47.7052
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>19.2557</b>	<b>1.1380</b>	<b>0.0000</b>	<b>47.7052</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
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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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## ENERGY ANALYSIS

## Energy Analysis

Land Use	Natural Gas Use	Electricity Use	Electricity Use
	(kBTU/yr)	(kWh/yr)	(MWh/yr)
General Light Industry	2769300	1698300	1,698
Parking Lot	0	37240	37
<b>Total kBTU</b>	<b>2,769,300</b>	<b>1,735,540</b>	1,736
<b>Total Therms</b>	27,693	1736	-

Energy Type	Project Annual Energy Consumption	Los Angeles County Annual	Percentage Increase Countywide
Electricity	1,736	67,569,000	0.0026%
Natural Gas	27,693	2,956,000,000	0.0009%

Note: 1 kBTU = 0.01 therms

Source: Refer to [Appendix B](#) for CalEEMod assumptions used in this analysis.

## Energy Analysis

Vehicle Type	Percent of Vehicle Trips <sup>1</sup>	Daily Trips <sup>2</sup>	Annual Vehicle Miles Traveled <sup>3</sup>	Average Fuel Economy (miles per gallon) <sup>4</sup>	Total Annual Fuel Consumption (gallons) <sup>5</sup>
Passenger Cars	0.55	--	6463385.37	22	293,790
Light/Medium Trucks	0.37	--	4365089.25	17.3	252,317
Heavy Trucks/Other	0.08	--	987586.38	6.4	154,310
<b>TOTAL</b> <sup>6</sup>	<b>1.00</b>	--	<b>11,816,061</b>	--	<b>700,418</b>
Notes:					
1. Percent of Vehicle Trip distribution based on trip characteristics within the CalEEMod model.					
2. Daily Trips calculated by multiplying the total daily trips by percent vehicle trips (i.e., Daily Trips x percent of Vehicle Trips).					
3. Daily Vehicle Miles Traveled (VMT) calculated by multiplying percent vehicle trips by total VMT (i.e., VMT x percent of Vehicle Trips).					
4. Average fuel economy derived from the Department of Transportation.					
5. Total Daily Fuel Consumption calculated by dividing the daily VMT by the average fuel economy (i.e., VMT/Average Fuel Economy).					
6. Values may be slightly off due to rounding.					
Source: Refer to <a href="#">Appendix B</a> for CalEEMod assumptions used in this analysis.					



## Energy Analysis

Worker Trips						
Phase	Phase Length (# days)	# Worker Trips	Worker Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	88	35	14.7	514.5		20.66029224
Building Construction	264	109	14.7	1602.3	<b>24.90284233</b>	64.34205297
Paving	22	10	14.7	147		5.902940639
Arch. Coating	22	22	14.7	323.4		12.98646941
<b>103.8917553</b>						
VENDOR TRIPS						
Phase	Phase Length (# days)	# Vendor Trips	Vendor Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	88	0	6.9	0		0
Building Construction	264	43	6.9	296.7	<b>8.343886151</b>	35.55897032
Paving	22	0	6.9	0		0
Arch. Coating	22	0	6.9	0		0
<b>35.55897032</b>						
HAULING TRIPS						
Phase	Phase Length (# days)	# Hauling Trips	Hauling Trip Length	Total VMT	Fuel Consumption Factor (Miles/Gallon/Day)	Total Fuel Consumption
Grading	88	4140	20	82800		14477.46881
Building Construction	264	0	20	0	<b>5.719231801</b>	0
Paving	22	0	20	0		0
Arch. Coating	22	0	20	0		0
<b>14477.46881</b>						
<b>TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION</b>						<b>14,616.92</b>

## Energy Analysis

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor	Fuel Consumption Rate (gallons per hour)	Duration (total hours/day)	# days	Total Fuel Consumption (gallons)
Grading	Cranes	1	6	231	0.29	2.6796	6	65	1045.044
	Crawler Tractors	2	6	212	0.43	3.6464	12	65	2844.192
	Graders	3	6	187	0.41	3.0668	18	65	3588.156
	Rollers	1	6	80	0.38	1.216	6	65	474.24
	Rubber Tired Dozers	2	6	247	0.40	3.952	12	65	3082.56
	Scrapers	3	6	367	0.48	7.0464	18	65	8244.288
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	65	559.884
	Excavators	1	6	158	0.38	2.4016	6	65	936.624
Building Construction	Excavators	1	8	158	0.38	2.4016	8	263	5052.9664
	Pavers	1	8	130	0.42	2.184	8	263	4595.136
	Tractors/Loaders/Backhoes	2	6	97	0.37	1.4356	12	263	4530.7536
	Cranes	1	7	231	0.29	2.6796	7	263	4933.1436
	Rubber Tired Loaders	1	7	203	0.36	2.9232	7	263	5381.6112
	Forklifts	3	8	89	0.2	0.712	24	263	4494.144
	Generator Sets	1	8	84	0.74	2.4864	8	263	5231.3856
	Welders	1	8	46	0.45	0.828	8	263	1742.112
Architectural Coating	Air Compressors	1	6	78	0.48	1.4976	6	10	89.856
Paving	Pavers	1	8	130	0.42	2.184	8	45	786.24
	Paving Equipment	1	8	132	0.36	1.9008	8	45	684.288
	Rollers	1	8	80	0.38	1.216	8	45	437.76
	Tractors/Loaders/Backhoes	1	6	97	0.37	1.4356	6	45	387.612
Sum Total:								59,122	
Off-Site Mobile Construction Trips:								14,617	
<b>TOTAL:</b>								<b>73,739</b>	
Notes: Fuel Consumption Rate = Horsepower x Load Factor x Fuel Consumption Factor Where: Fuel Consumption Factor for a diesel engine is 0.04 gallons per horsepower per hour (gal/hp/hr) and a gasoline engine is 0.06 gal/hp/hr.									
Source: Refer to <a href="#">Appendix B</a> for CalEEMod assumptions used in this analysis.									