

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

2020 Walnut Industrial Park
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

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

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
Total	9.2609	30.3762	84.4931	0.3032	25.1259	0.3145	25.4405	6.7244	0.2975	7.0219		31,273.5589	31,273.5589	1.6259	0.0164	31,319.0827

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
Total	9.2609	30.3762	84.4931	0.3032	25.1259	0.3145	25.4405	6.7244	0.2975	7.0219		31,273.5589	31,273.5589	1.6259	0.0164	31,319.0827

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

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	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

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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	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

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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	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
Total		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

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
Total		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

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	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
Total	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

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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	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
Total	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

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

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Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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

2020 Walnut Industrial Park
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

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

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
Total	9.4246	29.4766	89.8009	0.3184	25.1259	0.3135	25.4394	6.7244	0.2965	7.0209		32,800.8711	32,800.8711	1.6404	0.0164	32,846.7580

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
Total	9.4246	29.4766	89.8009	0.3184	25.1259	0.3135	25.4394	6.7244	0.2965	7.0209		32,800.8711	32,800.8711	1.6404	0.0164	32,846.7580

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

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

Historical Energy Use: N

5.1 Mitigation Measures Energy

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

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
Total		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

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
Total	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

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
Total	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

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

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

**2020 Walnut Industrial Park
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

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

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
Total	1.6674	5.6317	15.6344	0.0559	4.4846	0.0571	4.5418	1.2022	0.0540	1.2562	49.7363	5,931.4226	5,981.1589	3.7258	0.0359	6,085.0043

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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
Total	1.6674	5.6317	15.6344	0.0559	4.4846	0.0571	4.5418	1.2022	0.0540	1.2562	30.4806	5,931.4226	5,961.9032	2.5878	0.0359	6,037.2991

	ROG	NOx	CO	SO2	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	38.72	0.00	0.32	30.54	0.00	0.78

4.0 Operational Detail - Mobile

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

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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
Total		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

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
Total		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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5.3 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
Total		552.9802	0.0228	4.7200e-003	554.9585

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
Total		552.9802	0.0228	4.7200e-003	554.9585

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
Total	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

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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
Total	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

7.0 Water Detail

7.1 Mitigation Measures Water

2020 Walnut Industrial Park - 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
Total		158.0135	1.1590	0.0285	195.4734

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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
Total		158.0135	1.1590	0.0285	195.4734

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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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
Total		38.5115	2.2760	0.0000	95.4105

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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
Total		19.2557	1.1380	0.0000	47.7052

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 - Los Angeles-South Coast County, Annual

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
Total kBTU	2,769,300	1,735,540	1,736
Total Therms	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 ¹	Daily Trips ²	Annual Vehicle Miles Traveled ³	Average Fuel Economy (miles per gallon) ⁴	Total Annual Fuel Consumption (gallons) ⁵
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
TOTAL⁶	1.00	--	11,816,061	--	700,418
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 Appendix B 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	24.90284233	64.34205297
Paving	22	10	14.7	147		5.902940639
Arch. Coating	22	22	14.7	323.4		12.98646941
103.8917553						
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	8.343886151	35.55897032
Paving	22	0	6.9	0		0
Arch. Coating	22	0	6.9	0		0
35.55897032						
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	5.719231801	0
Paving	22	0	20	0		0
Arch. Coating	22	0	20	0		0
14477.46881						
TOTAL OFF-SITE MOBILE GALLONS CONSUMED DURING CONSTRUCTION						14,616.92

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	
TOTAL:								73,739	
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 Appendix B for CalEEMod assumptions used in this analysis.									