

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

Scheu Business Center - MITIGATED
San Bernardino-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	240.06	1000sqft	5.51	240,060.00	0
Parking Lot	336.45	1000sqft	7.72	336,449.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2019
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

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Project Characteristics -

Land Use - As per the site-plan

Construction Phase - Construction phasing adjusted to meet Opening Year 2019 schedule.

Off-road Equipment -

Off-road Equipment - Construction equipment increased during building phase for shortened phase schedule.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Grading - Net Import 33,500 CY.

Vehicle Trips - Weekday rate adjusted per Traffic Study and ITE 10th Edition.

Water And Wastewater - CalEEMod does not provide outdoor water usage for industrial buildings or parking lot. Outdoor water usage estimated to be additional 10% of indoor use.

Land Use Change -

Sequestration -

Construction Off-road Equipment Mitigation - Project will be required to comply with SCAQMD Rule 403 regarding fugitive dust control.

Operational Off-Road Equipment - Industrial project assumes 1 forklift for each building suite/tenant on-site (10 total)

Fleet Mix -

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Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadMoistureContent	0	25
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstructionPhase	NumDays	20.00	34.00
tblConstructionPhase	NumDays	300.00	240.00
tblGrading	MaterialImported	0.00	33,500.00
tblLandUse	LandUseSquareFeet	336,450.00	336,449.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	10.00
tblSequestration	NumberOfNewTrees	0.00	158.00
tblVehicleTrips	WD_TR	6.97	4.96
tblWater	OutdoorWaterUseRate	0.00	5,551,387.50

2.0 Emissions Summary

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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	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347
Energy	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955
Mobile	3.1457	22.9800	41.8464	0.1466	11.2419	0.1584	11.4003	3.0087	0.1495	3.1583		14,928.1363	14,928.1363	0.8057		14,948.2794
Offroad	1.5995	14.2831	11.9419	0.0153		1.1065	1.1065		1.0180	1.0180		1,513.2041	1,513.2041	0.4788		1,525.1731
Total	10.4890	39.3586	55.6075	0.1745	11.2419	1.4244	12.6663	3.0087	1.3269	4.3357		18,955.4228	18,955.4228	1.3330	0.0461	19,002.4827

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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	lb/day										lb/day					
Area	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347
Energy	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955
Mobile	3.1457	22.9800	41.8464	0.1466	11.2419	0.1584	11.4003	3.0087	0.1495	3.1583		14,928.1363	14,928.1363	0.8057		14,948.2794
Offroad	1.5995	14.2831	11.9419	0.0153		1.1065	1.1065		1.0180	1.0180		1,513.2041	1,513.2041	0.4788		1,525.1731
Total	10.4890	39.3586	55.6075	0.1745	11.2419	1.4244	12.6663	3.0087	1.3269	4.3357		18,955.4228	18,955.4228	1.3330	0.0461	19,002.4827

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

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/1/2018	10/12/2018	5	10	
2	Grading	Grading	10/13/2018	11/23/2018	5	30	
3	Building Construction	Building Construction	11/24/2018	10/25/2019	5	240	
4	Paving	Paving	10/26/2019	11/22/2019	5	20	
5	Architectural Coating	Architectural Coating	10/26/2019	12/12/2019	5	34	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 75

Acres of Paving: 7.72

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 360,090; Non-Residential Outdoor: 120,030; Striped Parking Area: 20,187 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	2	7.00	231	0.29
Building Construction	Forklifts	4	8.00	89	0.20
Building Construction	Generator Sets	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building Construction	Welders	2	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	4,188.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	14	242.00	94.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	48.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

3.2 Site Preparation - 2018

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					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708		3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	18.0663	2.5769	20.6432	9.9307	2.3708	12.3014		3,831.6239	3,831.6239	1.1928		3,861.4448

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3.2 Site Preparation - 2018

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	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575
Total	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.9103	0.0000	6.9103	3.7985	0.0000	3.7985			0.0000			0.0000
Off-Road	4.5627	48.1988	22.4763	0.0380		2.5769	2.5769		2.3708	2.3708	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448
Total	4.5627	48.1988	22.4763	0.0380	6.9103	2.5769	9.4873	3.7985	2.3708	6.1693	0.0000	3,831.6239	3,831.6239	1.1928		3,861.4448

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3.2 Site Preparation - 2018

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	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575
Total	0.1171	0.0851	0.8351	1.9600e-003	0.2012	1.4000e-003	0.2026	0.0534	1.2900e-003	0.0547		194.9814	194.9814	7.0400e-003		195.1575

3.3 Grading - 2018

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					8.7996	0.0000	8.7996	3.6156	0.0000	3.6156			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230		6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	8.7996	2.6337	11.4334	3.6156	2.4230	6.0387		6,244.4284	6,244.4284	1.9440		6,293.0278

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3.3 Grading - 2018

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	1.0392	39.5877	6.4232	0.1092	2.4433	0.1396	2.5829	0.6699	0.1336	0.8035		11,582.3649	11,582.3649	0.7058		11,600.0103
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	0.1301	0.0945	0.9279	2.1800e-003	0.2236	1.5500e-003	0.2251	0.0593	1.4300e-003	0.0607		216.6460	216.6460	7.8300e-003		216.8416
Total	1.1693	39.6822	7.3511	0.1114	2.6668	0.1412	2.8080	0.7292	0.1350	0.8642		11,799.0109	11,799.0109	0.7137		11,816.8519

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					3.3659	0.0000	3.3659	1.3830	0.0000	1.3830			0.0000			0.0000
Off-Road	5.0901	59.5218	35.0894	0.0620		2.6337	2.6337		2.4230	2.4230	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278
Total	5.0901	59.5218	35.0894	0.0620	3.3659	2.6337	5.9996	1.3830	2.4230	3.8060	0.0000	6,244.4284	6,244.4284	1.9440		6,293.0278

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3.3 Grading - 2018

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	1.0392	39.5877	6.4232	0.1092	2.4433	0.1396	2.5829	0.6699	0.1336	0.8035		11,582.3649	11,582.3649	0.7058		11,600.0103
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	0.1301	0.0945	0.9279	2.1800e-003	0.2236	1.5500e-003	0.2251	0.0593	1.4300e-003	0.0607		216.6460	216.6460	7.8300e-003		216.8416
Total	1.1693	39.6822	7.3511	0.1114	2.6668	0.1412	2.8080	0.7292	0.1350	0.8642		11,799.0109	11,799.0109	0.7137		11,816.8519

3.4 Building Construction - 2018

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	4.5370	39.0290	28.6491	0.0453		2.4224	2.4224		2.2887	2.2887		4,386.9371	4,386.9371	1.0181		4,412.3897
Total	4.5370	39.0290	28.6491	0.0453		2.4224	2.4224		2.2887	2.2887		4,386.9371	4,386.9371	1.0181		4,412.3897

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3.4 Building Construction - 2018

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	0.3966	11.4720	2.8156	0.0250	0.6021	0.0810	0.6831	0.1734	0.0775	0.2509		2,630.3929	2,630.3929	0.2063		2,635.5492
Worker	1.5741	1.1438	11.2276	0.0264	2.7050	0.0188	2.7238	0.7174	0.0173	0.7347		2,621.4164	2,621.4164	0.0947		2,623.7835
Total	1.9707	12.6157	14.0432	0.0513	3.3071	0.0998	3.4069	0.8907	0.0948	0.9856		5,251.8093	5,251.8093	0.3009		5,259.3327

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	4.5370	39.0290	28.6491	0.0453		2.4224	2.4224		2.2887	2.2887	0.0000	4,386.9371	4,386.9371	1.0181		4,412.3896
Total	4.5370	39.0290	28.6491	0.0453		2.4224	2.4224		2.2887	2.2887	0.0000	4,386.9371	4,386.9371	1.0181		4,412.3896

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.4 Building Construction - 2018

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	0.3966	11.4720	2.8156	0.0250	0.6021	0.0810	0.6831	0.1734	0.0775	0.2509		2,630.3929	2,630.3929	0.2063		2,635.5492
Worker	1.5741	1.1438	11.2276	0.0264	2.7050	0.0188	2.7238	0.7174	0.0173	0.7347		2,621.4164	2,621.4164	0.0947		2,623.7835
Total	1.9707	12.6157	14.0432	0.0513	3.3071	0.0998	3.4069	0.8907	0.0948	0.9856		5,251.8093	5,251.8093	0.3009		5,259.3327

3.4 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	3.9950	35.2106	27.9095	0.0453		2.0854	2.0854		1.9706	1.9706		4,342.3212	4,342.3212	0.9966		4,367.2371
Total	3.9950	35.2106	27.9095	0.0453		2.0854	2.0854		1.9706	1.9706		4,342.3212	4,342.3212	0.9966		4,367.2371

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3.4 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.3540	10.7617	2.5309	0.0247	0.6021	0.0686	0.6707	0.1734	0.0656	0.2390		2,603.3210	2,603.3210	0.2020		2,608.3700
Worker	1.4325	1.0048	9.9332	0.0254	2.7050	0.0182	2.7232	0.7174	0.0168	0.7341		2,532.2410	2,532.2410	0.0831		2,534.3178
Total	1.7866	11.7665	12.4640	0.0501	3.3071	0.0868	3.3938	0.8907	0.0824	0.9731		5,135.5620	5,135.5620	0.2850		5,142.6878

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	3.9950	35.2106	27.9095	0.0453		2.0854	2.0854		1.9706	1.9706	0.0000	4,342.3212	4,342.3212	0.9966		4,367.2371
Total	3.9950	35.2106	27.9095	0.0453		2.0854	2.0854		1.9706	1.9706	0.0000	4,342.3212	4,342.3212	0.9966		4,367.2371

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.4 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3540	10.7617	2.5309	0.0247	0.6021	0.0686	0.6707	0.1734	0.0656	0.2390		2,603.3210	2,603.3210	0.2020		2,608.3700
Worker	1.4325	1.0048	9.9332	0.0254	2.7050	0.0182	2.7232	0.7174	0.0168	0.7341		2,532.2410	2,532.2410	0.0831		2,534.3178
Total	1.7866	11.7665	12.4640	0.0501	3.3071	0.0868	3.3938	0.8907	0.0824	0.9731		5,135.5620	5,135.5620	0.2850		5,142.6878

3.5 Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.0113					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4658	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586		2,257.0025	2,257.0025	0.7141		2,274.8548

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.5 Paving - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858

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	1.4544	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548
Paving	1.0113					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	2.4658	15.2441	14.6648	0.0228		0.8246	0.8246		0.7586	0.7586	0.0000	2,257.0025	2,257.0025	0.7141		2,274.8548

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.5 Paving - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858
Total	0.0888	0.0623	0.6157	1.5800e-003	0.1677	1.1300e-003	0.1688	0.0445	1.0400e-003	0.0455		156.9571	156.9571	5.1500e-003		157.0858

3.6 Architectural Coating - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	68.2036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	68.4701	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.6 Architectural Coating - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2841	0.1993	1.9702	5.0500e-003	0.5365	3.6100e-003	0.5401	0.1423	3.3200e-003	0.1456		502.2627	502.2627	0.0165		502.6746
Total	0.2841	0.1993	1.9702	5.0500e-003	0.5365	3.6100e-003	0.5401	0.1423	3.3200e-003	0.1456		502.2627	502.2627	0.0165		502.6746

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	68.2036					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2664	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	68.4701	1.8354	1.8413	2.9700e-003		0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

3.6 Architectural Coating - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.2841	0.1993	1.9702	5.0500e-003	0.5365	3.6100e-003	0.5401	0.1423	3.3200e-003	0.1456		502.2627	502.2627	0.0165		502.6746
Total	0.2841	0.1993	1.9702	5.0500e-003	0.5365	3.6100e-003	0.5401	0.1423	3.3200e-003	0.1456		502.2627	502.2627	0.0165		502.6746

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Scheu Business Center - MITIGATED - San Bernardino-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	3.1457	22.9800	41.8464	0.1466	11.2419	0.1584	11.4003	3.0087	0.1495	3.1583		14,928.13 63	14,928.13 63	0.8057		14,948.27 94
Unmitigated	3.1457	22.9800	41.8464	0.1466	11.2419	0.1584	11.4003	3.0087	0.1495	3.1583		14,928.13 63	14,928.13 63	0.8057		14,948.27 94

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	1,190.70	316.88	163.24	4,069,972	4,069,972
Parking Lot	0.00	0.00	0.00		
Total	1,190.70	316.88	163.24	4,069,972	4,069,972

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

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
Parking Lot	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163
	0.541740	0.038987	0.178620	0.126833	0.019742	0.005671	0.017070	0.060066	0.001326	0.001715	0.006244	0.000823	0.001163

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	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955
NaturalGas Unmitigated	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955

Scheu Business Center - MITIGATED - San Bernardino-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	21368.6	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955
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		0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955

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	21.3686	0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955
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		0.2305	2.0950	1.7598	0.0126		0.1592	0.1592		0.1592	0.1592		2,513.9563	2,513.9563	0.0482	0.0461	2,528.8955

6.0 Area Detail

6.1 Mitigation Measures Area

Scheu Business Center - MITIGATED - San Bernardino-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	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347
Unmitigated	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347

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	0.6353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347
Total	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347

Scheu Business Center - MITIGATED - San Bernardino-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	0.6353					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	4.8724					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.6300e-003	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347
Total	5.5133	5.5000e-004	0.0594	0.0000		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004		0.1262	0.1262	3.4000e-004		0.1347

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Forklifts	10	8.00	260	89	0.20	Diesel

Scheu Business Center - MITIGATED - San Bernardino-South Coast County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Forklifts	1.5995	14.2831	11.9419	0.0153		1.1065	1.1065		1.0180	1.0180		1,513.204 1	1,513.204 1	0.4788		1,525.173 1
Total	1.5995	14.2831	11.9419	0.0153		1.1065	1.1065		1.0180	1.0180		1,513.204 1	1,513.204 1	0.4788		1,525.173 1

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