

S. Oregon Ready Mix - Siskiyou County, Annual

**S. Oregon Ready Mix
Siskiyou County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	4.00	1000sqft	0.09	4,000.00	0
Other Asphalt Surfaces	1,080.00	1000sqft	24.79	1,080,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	85
Climate Zone	14			Operational Year	2021
Utility Company	PacifiCorp				
CO2 Intensity (lb/MW hr)	1656.39	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - The County of Siskiyou receives power from Pacific Power. They are not included in this model so PacifiCorp was selected as a best fit.

Land Use - Other Asphalt Surfaces include the contractor's yard, wash out basin, septic field and well.

Construction Phase - The site does not have an existing structure so demo was removed. Building, paving and coating are assumed to happen at the same time.

Grading - Total acres being graded updated to 12.7 per information provided.

Energy Use -

Land Use Change -

Water Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	370.00	20.00
tblConstructionPhase	NumDays	20.00	0.00
tblConstructionPhase	PhaseEndDate	11/5/2020	5/30/2019
tblConstructionPhase	PhaseEndDate	9/10/2020	5/30/2019
tblConstructionPhase	PhaseEndDate	2/7/2019	1/10/2019
tblConstructionPhase	PhaseEndDate	4/11/2019	5/2/2019
tblConstructionPhase	PhaseEndDate	10/8/2020	5/30/2019
tblConstructionPhase	PhaseEndDate	2/21/2019	3/14/2019
tblConstructionPhase	PhaseStartDate	10/9/2020	5/3/2019
tblConstructionPhase	PhaseStartDate	4/12/2019	5/3/2019
tblConstructionPhase	PhaseStartDate	2/22/2019	3/15/2019
tblConstructionPhase	PhaseStartDate	9/11/2020	5/3/2019
tblConstructionPhase	PhaseStartDate	2/8/2019	3/1/2019
tblGrading	AcresOfGrading	87.50	12.70
tblGrading	MaterialImported	0.00	21,000.00

2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-11-2019	4-10-2019	1.0078	1.0078
2	4-11-2019	7-10-2019	1.8235	1.8235
		Highest	1.8235	1.8235

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	0.1286	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207
Energy	8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	13.6119	13.6119	2.4000e-004	6.0000e-005	13.6359
Mobile	0.0120	0.1054	0.1306	4.4000e-004	0.0229	4.9000e-004	0.0234	6.1600e-003	4.7000e-004	6.6300e-003	0.0000	40.5474	40.5474	2.8600e-003	0.0000	40.6190
Waste						0.0000	0.0000		0.0000	0.0000	1.0068	0.0000	1.0068	0.0595	0.0000	2.4944
Water						0.0000	0.0000		0.0000	0.0000	0.2935	3.7605	4.0540	0.0302	7.3000e-004	5.0253
Total	0.1406	0.1061	0.1412	4.4000e-004	0.0229	5.8000e-004	0.0235	6.1600e-003	5.6000e-004	6.7200e-003	1.3003	57.9392	59.2395	0.0929	7.9000e-004	61.7952

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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	0.1286	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207
Energy	8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	13.6119	13.6119	2.4000e-004	6.0000e-005	13.6359
Mobile	0.0120	0.1054	0.1306	4.4000e-004	0.0229	4.9000e-004	0.0234	6.1600e-003	4.7000e-004	6.6300e-003	0.0000	40.5474	40.5474	2.8600e-003	0.0000	40.6190
Waste						0.0000	0.0000		0.0000	0.0000	1.0068	0.0000	1.0068	0.0595	0.0000	2.4944
Water						0.0000	0.0000		0.0000	0.0000	0.2572	3.2957	3.5529	0.0265	6.4000e-004	4.4042
Total	0.1406	0.1061	0.1412	4.4000e-004	0.0229	5.8000e-004	0.0235	6.1600e-003	5.6000e-004	6.7200e-003	1.2640	57.4744	58.7385	0.0891	7.0000e-004	61.1741

	ROG	NOx	CO	SO2	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	2.79	0.80	0.85	4.03	11.39	1.01

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	Demolition	Demolition	1/11/2019	1/10/2019	5	0	
2	Site Preparation	Site Preparation	3/1/2019	3/14/2019	5	10	
3	Grading	Grading	3/15/2019	5/2/2019	5	35	
4	Building Construction	Building Construction	5/3/2019	5/30/2019	5	20	
5	Paving	Paving	5/3/2019	5/30/2019	5	20	
6	Architectural Coating	Architectural Coating	5/3/2019	5/30/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 12.7

Acres of Paving: 24.79

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 6,000; Non-Residential Outdoor: 2,000; Striped Parking Area: 64,800 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	2	8.00	158	0.38
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	130	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Paving Equipment	2	8.00	132	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

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3.2 Demolition - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0000	0.0000	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

3.3 Site Preparation - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	0.0217	0.2279	0.1103	1.9000e-004	0.0903	0.0120	0.1023	0.0497	0.0110	0.0607	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195

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3.3 Site Preparation - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.8000e-004	5.3100e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.7309	0.7309	5.0000e-005	0.0000	0.7321
Total	7.3000e-004	5.8000e-004	5.3100e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.7309	0.7309	5.0000e-005	0.0000	0.7321

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0217	0.2279	0.1103	1.9000e-004		0.0120	0.0120		0.0110	0.0110	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195
Total	0.0217	0.2279	0.1103	1.9000e-004	0.0903	0.0120	0.1023	0.0497	0.0110	0.0607	0.0000	17.0843	17.0843	5.4100e-003	0.0000	17.2195

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3.3 Site Preparation - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.3000e-004	5.8000e-004	5.3100e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.7309	0.7309	5.0000e-005	0.0000	0.7321
Total	7.3000e-004	5.8000e-004	5.3100e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.7309	0.7309	5.0000e-005	0.0000	0.7321

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1121	0.0000	0.1121	0.0587	0.0000	0.0587	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0829	0.9541	0.5841	1.0900e-003		0.0417	0.0417		0.0384	0.0384	0.0000	97.4773	97.4773	0.0308	0.0000	98.2483
Total	0.0829	0.9541	0.5841	1.0900e-003	0.1121	0.0417	0.1538	0.0587	0.0384	0.0970	0.0000	97.4773	97.4773	0.0308	0.0000	98.2483

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3.4 Grading - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0100	0.3178	0.0514	8.8000e-004	0.0174	1.4300e-003	0.0188	4.8000e-003	1.3700e-003	6.1600e-003	0.0000	83.7349	83.7349	4.2700e-003	0.0000	83.8416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8300e-003	2.2400e-003	0.0207	3.0000e-005	2.7300e-003	3.0000e-005	2.7600e-003	7.3000e-004	3.0000e-005	7.5000e-004	0.0000	2.8425	2.8425	1.9000e-004	0.0000	2.8471
Total	0.0129	0.3200	0.0720	9.1000e-004	0.0201	1.4600e-003	0.0216	5.5300e-003	1.4000e-003	6.9100e-003	0.0000	86.5774	86.5774	4.4600e-003	0.0000	86.6887

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					0.1121	0.0000	0.1121	0.0587	0.0000	0.0587	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0829	0.9541	0.5841	1.0900e-003		0.0417	0.0417		0.0384	0.0384	0.0000	97.4772	97.4772	0.0308	0.0000	98.2482
Total	0.0829	0.9541	0.5841	1.0900e-003	0.1121	0.0417	0.1538	0.0587	0.0384	0.0970	0.0000	97.4772	97.4772	0.0308	0.0000	98.2482

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3.4 Grading - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0100	0.3178	0.0514	8.8000e-004	0.0174	1.4300e-003	0.0188	4.8000e-003	1.3700e-003	6.1600e-003	0.0000	83.7349	83.7349	4.2700e-003	0.0000	83.8416
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8300e-003	2.2400e-003	0.0207	3.0000e-005	2.7300e-003	3.0000e-005	2.7600e-003	7.3000e-004	3.0000e-005	7.5000e-004	0.0000	2.8425	2.8425	1.9000e-004	0.0000	2.8471
Total	0.0129	0.3200	0.0720	9.1000e-004	0.0201	1.4600e-003	0.0216	5.5300e-003	1.4000e-003	6.9100e-003	0.0000	86.5774	86.5774	4.4600e-003	0.0000	86.6887

3.5 Building Construction - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0236	0.2108	0.1716	2.7000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	23.5104	23.5104	5.7300e-003	0.0000	23.6536
Total	0.0236	0.2108	0.1716	2.7000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	23.5104	23.5104	5.7300e-003	0.0000	23.6536

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3.5 Building Construction - 2019

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2490	0.0887	5.6000e-004	0.0116	1.9200e-003	0.0135	3.3500e-003	1.8400e-003	5.1900e-003	0.0000	52.7929	52.7929	4.1700e-003	0.0000	52.8971
Worker	0.0368	0.0292	0.2686	4.1000e-004	0.0355	3.9000e-004	0.0359	9.4500e-003	3.6000e-004	9.8100e-003	0.0000	36.9521	36.9521	2.4200e-003	0.0000	37.0126
Total	0.0505	0.2782	0.3573	9.7000e-004	0.0471	2.3100e-003	0.0494	0.0128	2.2000e-003	0.0150	0.0000	89.7450	89.7450	6.5900e-003	0.0000	89.9097

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	0.0236	0.2108	0.1716	2.7000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	23.5104	23.5104	5.7300e-003	0.0000	23.6536
Total	0.0236	0.2108	0.1716	2.7000e-004		0.0129	0.0129		0.0121	0.0121	0.0000	23.5104	23.5104	5.7300e-003	0.0000	23.6536

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3.5 Building Construction - 2019

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0138	0.2490	0.0887	5.6000e-004	0.0116	1.9200e-003	0.0135	3.3500e-003	1.8400e-003	5.1900e-003	0.0000	52.7929	52.7929	4.1700e-003	0.0000	52.8971
Worker	0.0368	0.0292	0.2686	4.1000e-004	0.0355	3.9000e-004	0.0359	9.4500e-003	3.6000e-004	9.8100e-003	0.0000	36.9521	36.9521	2.4200e-003	0.0000	37.0126
Total	0.0505	0.2782	0.3573	9.7000e-004	0.0471	2.3100e-003	0.0494	0.0128	2.2000e-003	0.0150	0.0000	89.7450	89.7450	6.5900e-003	0.0000	89.9097

3.6 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	tons/yr										MT/yr					
Off-Road	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0470	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

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3.6 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	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	1.2100e-003	9.6000e-004	8.8500e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.2182	1.2182	8.0000e-005	0.0000	1.2202
Total	1.2100e-003	9.6000e-004	8.8500e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.2182	1.2182	8.0000e-005	0.0000	1.2202

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	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	0.0325					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0470	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

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3.6 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	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	1.2100e-003	9.6000e-004	8.8500e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.2182	1.2182	8.0000e-005	0.0000	1.2202
Total	1.2100e-003	9.6000e-004	8.8500e-003	1.0000e-005	1.1700e-003	1.0000e-005	1.1800e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.2182	1.2182	8.0000e-005	0.0000	1.2202

3.7 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	tons/yr										MT/yr					
Archit. Coating	0.4218					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587
Total	0.4245	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5587

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3.7 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	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	7.3500e-003	5.8400e-003	0.0537	8.0000e-005	7.1000e-003	8.0000e-005	7.1700e-003	1.8900e-003	7.0000e-005	1.9600e-003	0.0000	7.3904	7.3904	4.8000e-004	0.0000	7.4025
Total	7.3500e-003	5.8400e-003	0.0537	8.0000e-005	7.1000e-003	8.0000e-005	7.1700e-003	1.8900e-003	7.0000e-005	1.9600e-003	0.0000	7.3904	7.3904	4.8000e-004	0.0000	7.4025

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	0.4218					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586
Total	0.4245	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586

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3.7 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	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	7.3500e-003	5.8400e-003	0.0537	8.0000e-005	7.1000e-003	8.0000e-005	7.1700e-003	1.8900e-003	7.0000e-005	1.9600e-003	0.0000	7.3904	7.3904	4.8000e-004	0.0000	7.4025
Total	7.3500e-003	5.8400e-003	0.0537	8.0000e-005	7.1000e-003	8.0000e-005	7.1700e-003	1.8900e-003	7.0000e-005	1.9600e-003	0.0000	7.3904	7.3904	4.8000e-004	0.0000	7.4025

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	0.0120	0.1054	0.1306	4.4000e-004	0.0229	4.9000e-004	0.0234	6.1600e-003	4.7000e-004	6.6300e-003	0.0000	40.5474	40.5474	2.8600e-003	0.0000	40.6190
Unmitigated	0.0120	0.1054	0.1306	4.4000e-004	0.0229	4.9000e-004	0.0234	6.1600e-003	4.7000e-004	6.6300e-003	0.0000	40.5474	40.5474	2.8600e-003	0.0000	40.6190

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	27.88	5.28	2.72	61,477	61,477
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	27.88	5.28	2.72	61,477	61,477

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	9.50	7.30	7.30	59.00	28.00	13.00	92	5	3
Other Asphalt Surfaces	9.50	7.30	7.30	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	0.487361	0.038770	0.180029	0.116952	0.034202	0.006373	0.008681	0.117611	0.001222	0.001581	0.005079	0.001001	0.001137
Other Asphalt Surfaces	0.487361	0.038770	0.180029	0.116952	0.034202	0.006373	0.008681	0.117611	0.001222	0.001581	0.005079	0.001001	0.001137

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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	12.8627	12.8627	2.3000e-004	5.0000e-005	12.8822
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	12.8627	12.8627	2.3000e-004	5.0000e-005	12.8822
NaturalGas Mitigated	8.0000e-005	6.9000e-004	5.8000e-004	0.0000			5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537
NaturalGas Unmitigated	8.0000e-005	6.9000e-004	5.8000e-004	0.0000			5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537

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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	14040	8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537

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	14040	8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		8.0000e-005	6.9000e-004	5.8000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.7492	0.7492	1.0000e-005	1.0000e-005	0.7537

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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	17120	12.8627	2.3000e-004	5.0000e-005	12.8822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		12.8627	2.3000e-004	5.0000e-005	12.8822

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	17120	12.8627	2.3000e-004	5.0000e-005	12.8822
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		12.8627	2.3000e-004	5.0000e-005	12.8822

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1286	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207
Unmitigated	0.1286	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207

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	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207
Total	0.1285	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207

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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	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0854					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.3000e-004	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207
Total	0.1285	9.0000e-005	0.0100	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0194	0.0194	5.0000e-005	0.0000	0.0207

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.5529	0.0265	6.4000e-004	4.4042
Unmitigated	4.0540	0.0302	7.3000e-004	5.0253

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0.925 / 0	4.0540	0.0302	7.3000e-004	5.0253
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.0540	0.0302	7.3000e-004	5.0253

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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	0.81067 / 0	3.5529	0.0265	6.4000e-004	4.4042
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		3.5529	0.0265	6.4000e-004	4.4042

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.0068	0.0595	0.0000	2.4944
Unmitigated	1.0068	0.0595	0.0000	2.4944

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	4.96	1.0068	0.0595	0.0000	2.4944
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.0068	0.0595	0.0000	2.4944

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	4.96	1.0068	0.0595	0.0000	2.4944
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1.0068	0.0595	0.0000	2.4944

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
