

TECHNICAL APPENDIX

CalEEMod Model Output Files

The following CalEEMod emissions model output files are presented below:

CalEEMod Model Output File
Annual Period

CalEEMod Model Output File
Daily Summer Period

CalEEMod Model Output File
Daily Winter Period

CalEEMod Model Output File
Annual Period

Rocklin Self Storage Project - Placer-Sacramento County, Annual

**Rocklin Self Storage Project
Placer-Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	106.76	1000sqft	2.45	106,760.00	0
Other Asphalt Surfaces	0.03	1000sqft	0.00	31.00	0
Other Non-Asphalt Surfaces	90.84	1000sqft	2.09	90,839.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	307	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 - CO2 intensity factor of 307 lb/MWh from PG&E 2015.

Land Use - Land use quantities from project site plan and Orr pers. comm.

Construction Phase - Construction schedule per Orr pers comm.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

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Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Grading - No changes. All values shown are CalEEMod default.

Vehicle Trips - ITE Trip Generation 10th Edition LU Code 151 Mini-Warehouse: 1.51 weekday, 1.95 Saturday, 1.89 Sunday.

Energy Use -

Architectural Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Area Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	8.00	5.00

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tblConstructionPhase	NumDays	230.00	146.00
tblConstructionPhase	NumDays	18.00	11.00
tblConstructionPhase	NumDays	18.00	11.00
tblGrading	AcresOfGrading	3.94	4.00
tblLandUse	LandUseSquareFeet	30.00	31.00
tblLandUse	LandUseSquareFeet	90,840.00	90,839.00
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	1.68	1.51

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2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	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
Year	tons/yr										MT/yr					
2019	0.5929	3.0842	2.4555	4.6600e-003	0.1335	0.1688	0.3022	0.0544	0.1584	0.2128	0.0000	414.4972	414.4972	0.0809	0.0000	416.5195
Maximum	0.5929	3.0842	2.4555	4.6600e-003	0.1335	0.1688	0.3022	0.0544	0.1584	0.2128	0.0000	414.4972	414.4972	0.0809	0.0000	416.5195

Mitigated Construction

	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
Year	tons/yr										MT/yr					
2019	0.5929	3.0842	2.4555	4.6600e-003	0.1335	0.1688	0.3022	0.0544	0.1584	0.2128	0.0000	414.4969	414.4969	0.0809	0.0000	416.5191
Maximum	0.5929	3.0842	2.4555	4.6600e-003	0.1335	0.1688	0.3022	0.0544	0.1584	0.2128	0.0000	414.4969	414.4969	0.0809	0.0000	416.5191

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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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	4-15-2019	7-14-2019	1.4103	1.4103
2	7-15-2019	9-30-2019	1.1593	1.1593
		Highest	1.4103	1.4103

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	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003
Energy	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	103.1959	103.1959	7.1300e-003	1.9700e-003	103.9626
Mobile	0.0681	0.4643	0.8047	2.6600e-003	0.1885	3.4400e-003	0.1919	0.0507	3.2600e-003	0.0540	0.0000	244.6293	244.6293	0.0106	0.0000	244.8938
Waste						0.0000	0.0000		0.0000	0.0000	20.3701	0.0000	20.3701	1.2038	0.0000	50.4662
Water						0.0000	0.0000		0.0000	0.0000	7.8324	18.6025	26.4350	0.8062	0.0194	52.3595
Total	0.5200	0.4963	0.8333	2.8500e-003	0.1885	5.8800e-003	0.1944	0.0507	5.7000e-003	0.0564	28.2026	366.4313	394.6339	2.0278	0.0213	451.6858

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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	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003
Energy	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	103.1959	103.1959	7.1300e-003	1.9700e-003	103.9626
Mobile	0.0681	0.4643	0.8047	2.6600e-003	0.1885	3.4400e-003	0.1919	0.0507	3.2600e-003	0.0540	0.0000	244.6293	244.6293	0.0106	0.0000	244.8938
Waste						0.0000	0.0000		0.0000	0.0000	20.3701	0.0000	20.3701	1.2038	0.0000	50.4662
Water						0.0000	0.0000		0.0000	0.0000	7.8324	18.6025	26.4350	0.8062	0.0194	52.3595
Total	0.5200	0.4963	0.8333	2.8500e-003	0.1885	5.8800e-003	0.1944	0.0507	5.7000e-003	0.0564	28.2026	366.4313	394.6339	2.0278	0.0213	451.6858

	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	4/15/2019	4/17/2019	5	3	
2	Grading	Grading	4/18/2019	4/24/2019	5	5	
3	Building Construction	Building Construction	4/25/2019	11/14/2019	5	146	
4	Paving	Paving	11/15/2019	11/29/2019	5	11	
5	Architectural Coating	Architectural Coating	12/2/2019	12/16/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 160,140; Non-Residential Outdoor: 53,380; Striped Parking Area: 5,452 (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	12.60	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	12.60	97	0.37
Grading	Excavators	1	12.60	158	0.38
Grading	Graders	1	12.60	187	0.41
Grading	Rubber Tired Dozers	1	12.60	247	0.40
Grading	Tractors/Loaders/Backhoes	3	12.60	97	0.37
Building Construction	Cranes	1	11.00	231	0.29
Building Construction	Forklifts	3	12.60	89	0.20
Building Construction	Generator Sets	1	12.60	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Building Construction	Welders	1	12.60	46	0.45
Paving	Cement and Mortar Mixers	2	9.40	9	0.56
Paving	Pavers	1	12.60	130	0.42
Paving	Paving Equipment	2	9.40	132	0.36
Paving	Rollers	2	9.40	80	0.38
Paving	Tractors/Loaders/Backhoes	1	12.60	97	0.37
Architectural Coating	Air Compressors	1	9.40	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	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 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					0.0427	0.0000	0.0427	0.0235	0.0000	0.0235	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1077	0.0521	9.0000e-005		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	8.0724	8.0724	2.5500e-003	0.0000	8.1362
Total	0.0102	0.1077	0.0521	9.0000e-005	0.0427	5.6500e-003	0.0483	0.0235	5.2000e-003	0.0287	0.0000	8.0724	8.0724	2.5500e-003	0.0000	8.1362

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3.2 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	1.0000e-004	7.0000e-005	7.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1892
Total	1.0000e-004	7.0000e-005	7.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1892

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					0.0427	0.0000	0.0427	0.0235	0.0000	0.0235	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1077	0.0521	9.0000e-005		5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003	0.0000	8.0723	8.0723	2.5500e-003	0.0000	8.1362
Total	0.0102	0.1077	0.0521	9.0000e-005	0.0427	5.6500e-003	0.0483	0.0235	5.2000e-003	0.0287	0.0000	8.0723	8.0723	2.5500e-003	0.0000	8.1362

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3.2 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	1.0000e-004	7.0000e-005	7.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1892
Total	1.0000e-004	7.0000e-005	7.8000e-004	0.0000	2.1000e-004	0.0000	2.1000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.1891	0.1891	1.0000e-005	0.0000	0.1892

3.3 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					0.0258	0.0000	0.0258	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1116	0.0642	1.2000e-004		5.5000e-003	5.5000e-003		5.0600e-003	5.0600e-003	0.0000	10.4904	10.4904	3.3200e-003	0.0000	10.5734
Total	0.0102	0.1116	0.0642	1.2000e-004	0.0258	5.5000e-003	0.0313	0.0133	5.0600e-003	0.0183	0.0000	10.4904	10.4904	3.3200e-003	0.0000	10.5734

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3.3 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	0.0000	0.0000	0.0000	0.0000	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	1.4000e-004	1.0000e-004	1.0900e-003	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2626	0.2626	1.0000e-005	0.0000	0.2628
Total	1.4000e-004	1.0000e-004	1.0900e-003	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2626	0.2626	1.0000e-005	0.0000	0.2628

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					0.0258	0.0000	0.0258	0.0133	0.0000	0.0133	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.1116	0.0642	1.2000e-004		5.5000e-003	5.5000e-003		5.0600e-003	5.0600e-003	0.0000	10.4904	10.4904	3.3200e-003	0.0000	10.5734
Total	0.0102	0.1116	0.0642	1.2000e-004	0.0258	5.5000e-003	0.0313	0.0133	5.0600e-003	0.0183	0.0000	10.4904	10.4904	3.3200e-003	0.0000	10.5734

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3.3 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	0.0000	0.0000	0.0000	0.0000	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	1.4000e-004	1.0000e-004	1.0900e-003	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2626	0.2626	1.0000e-005	0.0000	0.2628
Total	1.4000e-004	1.0000e-004	1.0900e-003	0.0000	2.9000e-004	0.0000	3.0000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.2626	0.2626	1.0000e-005	0.0000	0.2628

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	tons/yr										MT/yr					
Off-Road	0.2712	2.4206	1.9713	3.0900e-003		0.1481	0.1481		0.1393	0.1393	0.0000	270.0019	270.0019	0.0658	0.0000	271.6457
Total	0.2712	2.4206	1.9713	3.0900e-003		0.1481	0.1481		0.1393	0.1393	0.0000	270.0019	270.0019	0.0658	0.0000	271.6457

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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	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	0.0104	0.3010	0.0623	6.8000e-004	0.0153	1.8200e-003	0.0171	4.4200e-003	1.7400e-003	6.1600e-003	0.0000	64.9913	64.9913	3.4200e-003	0.0000	65.0769
Worker	0.0229	0.0166	0.1756	4.7000e-004	0.0476	3.2000e-004	0.0479	0.0127	3.0000e-004	0.0130	0.0000	42.4235	42.4235	1.1600e-003	0.0000	42.4526
Total	0.0333	0.3176	0.2379	1.1500e-003	0.0628	2.1400e-003	0.0650	0.0171	2.0400e-003	0.0191	0.0000	107.4148	107.4148	4.5800e-003	0.0000	107.5295

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	0.2712	2.4206	1.9713	3.0900e-003		0.1481	0.1481		0.1393	0.1393	0.0000	270.0016	270.0016	0.0658	0.0000	271.6454
Total	0.2712	2.4206	1.9713	3.0900e-003		0.1481	0.1481		0.1393	0.1393	0.0000	270.0016	270.0016	0.0658	0.0000	271.6454

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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	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	0.0104	0.3010	0.0623	6.8000e-004	0.0153	1.8200e-003	0.0171	4.4200e-003	1.7400e-003	6.1600e-003	0.0000	64.9913	64.9913	3.4200e-003	0.0000	65.0769
Worker	0.0229	0.0166	0.1756	4.7000e-004	0.0476	3.2000e-004	0.0479	0.0127	3.0000e-004	0.0130	0.0000	42.4235	42.4235	1.1600e-003	0.0000	42.4526
Total	0.0333	0.3176	0.2379	1.1500e-003	0.0628	2.1400e-003	0.0650	0.0171	2.0400e-003	0.0191	0.0000	107.4148	107.4148	4.5800e-003	0.0000	107.5295

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	tons/yr										MT/yr					
Off-Road	0.0110	0.1102	0.1063	1.6000e-004		6.2100e-003	6.2100e-003		5.7300e-003	5.7300e-003	0.0000	14.4412	14.4412	4.4400e-003	0.0000	14.5523
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1102	0.1063	1.6000e-004		6.2100e-003	6.2100e-003		5.7300e-003	5.7300e-003	0.0000	14.4412	14.4412	4.4400e-003	0.0000	14.5523

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.0000e-004	3.1900e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7702	0.7702	2.0000e-005	0.0000	0.7707
Total	4.2000e-004	3.0000e-004	3.1900e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7702	0.7702	2.0000e-005	0.0000	0.7707

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	0.0110	0.1102	0.1063	1.6000e-004		6.2100e-003	6.2100e-003		5.7300e-003	5.7300e-003	0.0000	14.4412	14.4412	4.4400e-003	0.0000	14.5523
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0110	0.1102	0.1063	1.6000e-004		6.2100e-003	6.2100e-003		5.7300e-003	5.7300e-003	0.0000	14.4412	14.4412	4.4400e-003	0.0000	14.5523

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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	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.2000e-004	3.0000e-004	3.1900e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7702	0.7702	2.0000e-005	0.0000	0.7707
Total	4.2000e-004	3.0000e-004	3.1900e-003	1.0000e-005	8.6000e-004	1.0000e-005	8.7000e-004	2.3000e-004	1.0000e-005	2.4000e-004	0.0000	0.7702	0.7702	2.0000e-005	0.0000	0.7707

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	tons/yr										MT/yr					
Archit. Coating	0.2537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-003	0.0158	0.0159	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.2001	2.2001	1.9000e-004	0.0000	2.2047
Total	0.2560	0.0158	0.0159	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.2001	2.2001	1.9000e-004	0.0000	2.2047

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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	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	3.5000e-004	2.6000e-004	2.7100e-003	1.0000e-005	7.3000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6547	0.6547	2.0000e-005	0.0000	0.6551
Total	3.5000e-004	2.6000e-004	2.7100e-003	1.0000e-005	7.3000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6547	0.6547	2.0000e-005	0.0000	0.6551

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	0.2537					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3000e-003	0.0158	0.0159	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.2001	2.2001	1.9000e-004	0.0000	2.2047
Total	0.2560	0.0158	0.0159	3.0000e-005		1.1100e-003	1.1100e-003		1.1100e-003	1.1100e-003	0.0000	2.2001	2.2001	1.9000e-004	0.0000	2.2047

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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	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	3.5000e-004	2.6000e-004	2.7100e-003	1.0000e-005	7.3000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6547	0.6547	2.0000e-005	0.0000	0.6551
Total	3.5000e-004	2.6000e-004	2.7100e-003	1.0000e-005	7.3000e-004	0.0000	7.4000e-004	2.0000e-004	0.0000	2.0000e-004	0.0000	0.6547	0.6547	2.0000e-005	0.0000	0.6551

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	0.0681	0.4643	0.8047	2.6600e-003	0.1885	3.4400e-003	0.1919	0.0507	3.2600e-003	0.0540	0.0000	244.6293	244.6293	0.0106	0.0000	244.8938
Unmitigated	0.0681	0.4643	0.8047	2.6600e-003	0.1885	3.4400e-003	0.1919	0.0507	3.2600e-003	0.0540	0.0000	244.6293	244.6293	0.0106	0.0000	244.8938

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	161.21	208.18	201.78	507,159	507,159
Total	161.21	208.18	201.78	507,159	507,159

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Other Non-Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Unrefrigerated Warehouse-No Rail	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

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	68.3865	68.3865	6.4600e-003	1.3400e-003	68.9463
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	68.3865	68.3865	6.4600e-003	1.3400e-003	68.9463
NaturalGas Mitigated	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163
NaturalGas Unmitigated	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	652304	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163
Total		3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163

Mitigated

	Natural Gas 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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	652304	3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163
Total		3.5200e-003	0.0320	0.0269	1.9000e-004		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	34.8094	34.8094	6.7000e-004	6.4000e-004	35.0163

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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			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	491096	68.3865	6.4600e-003	1.3400e-003	68.9463
Total		68.3865	6.4600e-003	1.3400e-003	68.9463

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	491096	68.3865	6.4600e-003	1.3400e-003	68.9463
Total		68.3865	6.4600e-003	1.3400e-003	68.9463

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6.0 Area Detail

6.1 Mitigation Measures Area

	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	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003
Unmitigated	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003

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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	0.0254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003
Total	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003

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	0.0254					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4228					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.7000e-004	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003
Total	0.4484	2.0000e-005	1.8300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.5300e-003	3.5300e-003	1.0000e-005	0.0000	3.7700e-003

7.0 Water Detail

Rocklin Self Storage Project - Placer-Sacramento County, Annual

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	26.4350	0.8062	0.0194	52.3595
Unmitigated	26.4350	0.8062	0.0194	52.3595

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	24.6883 / 0	26.4350	0.8062	0.0194	52.3595
Total		26.4350	0.8062	0.0194	52.3595

Rocklin Self Storage Project - Placer-Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	24.6883 / 0	26.4350	0.8062	0.0194	52.3595
Total		26.4350	0.8062	0.0194	52.3595

8.0 Waste Detail

8.1 Mitigation Measures Waste

Rocklin Self Storage Project - Placer-Sacramento County, Annual

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	20.3701	1.2038	0.0000	50.4662
Unmitigated	20.3701	1.2038	0.0000	50.4662

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	100.35	20.3701	1.2038	0.0000	50.4662
Total		20.3701	1.2038	0.0000	50.4662

Rocklin Self Storage Project - Placer-Sacramento County, Annual

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	100.35	20.3701	1.2038	0.0000	50.4662
Total		20.3701	1.2038	0.0000	50.4662

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
----------------	--------	----------------	-----------------	---------------	-----------

User Defined Equipment

Equipment Type	Number
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Rocklin Self Storage Project - Placer-Sacramento County, Annual

11.0 Vegetation

CalEEMod Model Output File
Daily Summer Period

Rocklin Self Storage Project - Placer-Sacramento County, Summer

**Rocklin Self Storage Project
Placer-Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	106.76	1000sqft	2.45	106,760.00	0
Other Asphalt Surfaces	0.03	1000sqft	0.00	31.00	0
Other Non-Asphalt Surfaces	90.84	1000sqft	2.09	90,839.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	307	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Rocklin Self Storage Project - Placer-Sacramento County, Summer

Project Characteristics - CO2 intensity factor of 307 lb/MWh from PG&E 2015.

Land Use - Land use quantities from project site plan and Orr pers. comm.

Construction Phase - Construction schedule per Orr pers comm.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Grading - No changes. All values shown are CalEEMod default.

Vehicle Trips - ITE Trip Generation 10th Edition LU Code 151 Mini-Warehouse: 1.51 weekday, 1.95 Saturday, 1.89 Sunday.

Energy Use -

Architectural Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Area Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	8.00	5.00

Rocklin Self Storage Project - Placer-Sacramento County, Summer

tblConstructionPhase	NumDays	230.00	146.00
tblConstructionPhase	NumDays	18.00	11.00
tblConstructionPhase	NumDays	18.00	11.00
tblGrading	AcresOfGrading	3.94	4.00
tblLandUse	LandUseSquareFeet	30.00	31.00
tblLandUse	LandUseSquareFeet	90,840.00	90,839.00
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	1.68	1.51

Rocklin Self Storage Project - Placer-Sacramento County, Summer

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2019	46.6229	71.8205	35.3359	0.0614	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,084.3828	6,084.3828	1.8810	0.0000	6,131.4081
Maximum	46.6229	71.8205	35.3359	0.0614	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,084.3828	6,084.3828	1.8810	0.0000	6,131.4081

Mitigated Construction

	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
Year	lb/day										lb/day					
2019	46.6229	71.8205	35.3359	0.0614	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,084.3828	6,084.3828	1.8810	0.0000	6,131.4081
Maximum	46.6229	71.8205	35.3359	0.0614	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,084.3828	6,084.3828	1.8810	0.0000	6,131.4081

Rocklin Self Storage Project - Placer-Sacramento 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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Energy	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Mobile	0.5306	2.9488	5.6741	0.0187	1.2970	0.0226	1.3196	0.3476	0.0213	0.3689		1,893.5234	1,893.5234	0.0770		1,895.4493
Total	3.0077	3.1242	5.8416	0.0198	1.2970	0.0359	1.3330	0.3476	0.0347	0.3823		2,103.8176	2,103.8176	0.0812	3.8500e-003	2,106.9958

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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Energy	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Mobile	0.5306	2.9488	5.6741	0.0187	1.2970	0.0226	1.3196	0.3476	0.0213	0.3689		1,893.5234	1,893.5234	0.0770		1,895.4493
Total	3.0077	3.1242	5.8416	0.0198	1.2970	0.0359	1.3330	0.3476	0.0347	0.3823		2,103.8176	2,103.8176	0.0812	3.8500e-003	2,106.9958

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/15/2019	4/17/2019	5	3	
2	Grading	Grading	4/18/2019	4/24/2019	5	5	
3	Building Construction	Building Construction	4/25/2019	11/14/2019	5	146	
4	Paving	Paving	11/15/2019	11/29/2019	5	11	
5	Architectural Coating	Architectural Coating	12/2/2019	12/16/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 160,140; Non-Residential Outdoor: 53,380; Striped Parking Area: 5,452 (Architectural Coating – sqft)

OffRoad Equipment

Rocklin Self Storage Project - Placer-Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	12.60	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	12.60	97	0.37
Grading	Excavators	1	12.60	158	0.38
Grading	Graders	1	12.60	187	0.41
Grading	Rubber Tired Dozers	1	12.60	247	0.40
Grading	Tractors/Loaders/Backhoes	3	12.60	97	0.37
Building Construction	Cranes	1	11.00	231	0.29
Building Construction	Forklifts	3	12.60	89	0.20
Building Construction	Generator Sets	1	12.60	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Building Construction	Welders	1	12.60	46	0.45
Paving	Cement and Mortar Mixers	2	9.40	9	0.56
Paving	Pavers	1	12.60	130	0.42
Paving	Paving Equipment	2	9.40	132	0.36
Paving	Rollers	2	9.40	80	0.38
Paving	Tractors/Loaders/Backhoes	1	12.60	97	0.37
Architectural Coating	Air Compressors	1	9.40	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	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Rocklin Self Storage Project - Placer-Sacramento County, Summer

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Fugitive Dust					28.4544	0.0000	28.4544	15.6408	0.0000	15.6408			0.0000			0.0000
Off-Road	6.8276	71.7770	34.7492	0.0599		3.7648	3.7648		3.4636	3.4636		5,932.163 3	5,932.163 3	1.8769		5,979.085 1
Total	6.8276	71.7770	34.7492	0.0599	28.4544	3.7648	32.2192	15.6408	3.4636	19.1045		5,932.163 3	5,932.163 3	1.8769		5,979.085 1

Rocklin Self Storage Project - Placer-Sacramento County, Summer

3.2 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	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	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229
Total	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229

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					28.4544	0.0000	28.4544	15.6408	0.0000	15.6408			0.0000			0.0000
Off-Road	6.8276	71.7770	34.7492	0.0599		3.7648	3.7648		3.4636	3.4636	0.0000	5,932.1633	5,932.1633	1.8769		5,979.0851
Total	6.8276	71.7770	34.7492	0.0599	28.4544	3.7648	32.2192	15.6408	3.4636	19.1045	0.0000	5,932.1633	5,932.1633	1.8769		5,979.0851

Rocklin Self Storage Project - Placer-Sacramento County, Summer

3.2 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	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	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229
Total	0.0763	0.0434	0.5866	1.5300e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		152.2195	152.2195	4.1400e-003		152.3229

3.3 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	lb/day										lb/day					
Fugitive Dust					10.3332	0.0000	10.3332	5.3052	0.0000	5.3052			0.0000			0.0000
Off-Road	4.0642	44.6481	25.6621	0.0467		2.2008	2.2008		2.0248	2.0248		4,625.4707	4,625.4707	1.4635		4,662.0569
Total	4.0642	44.6481	25.6621	0.0467	10.3332	2.2008	12.5340	5.3052	2.0248	7.3300		4,625.4707	4,625.4707	1.4635		4,662.0569

Rocklin Self Storage Project - Placer-Sacramento County, Summer

3.3 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	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	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358
Total	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358

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					10.3332	0.0000	10.3332	5.3052	0.0000	5.3052			0.0000			0.0000
Off-Road	4.0642	44.6481	25.6621	0.0467		2.2008	2.2008		2.0248	2.0248	0.0000	4,625.4707	4,625.4707	1.4635		4,662.0569
Total	4.0642	44.6481	25.6621	0.0467	10.3332	2.2008	12.5340	5.3052	2.0248	7.3300	0.0000	4,625.4707	4,625.4707	1.4635		4,662.0569

Rocklin Self Storage Project - Placer-Sacramento County, Summer

3.3 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	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	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358
Total	0.0636	0.0362	0.4889	1.2700e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		126.8496	126.8496	3.4500e-003		126.9358

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	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080		4,077.0705	4,077.0705	0.9929		4,101.8923
Total	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080		4,077.0705	4,077.0705	0.9929		4,101.8923

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.1386	4.0527	0.7785	9.5100e-003	0.2168	0.0247	0.2415	0.0624	0.0236	0.0860		995.2683	995.2683	0.0489		996.4900
Worker	0.3519	0.2002	2.7049	7.0500e-003	0.6818	4.4300e-003	0.6863	0.1809	4.0800e-003	0.1849		701.9011	701.9011	0.0191		702.3779
Total	0.4905	4.2528	3.4834	0.0166	0.8986	0.0291	0.9277	0.2433	0.0277	0.2710		1,697.1694	1,697.1694	0.0679		1,698.8679

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	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080	0.0000	4,077.0705	4,077.0705	0.9929		4,101.8923
Total	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080	0.0000	4,077.0705	4,077.0705	0.9929		4,101.8923

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.1386	4.0527	0.7785	9.5100e-003	0.2168	0.0247	0.2415	0.0624	0.0236	0.0860		995.2683	995.2683	0.0489		996.4900
Worker	0.3519	0.2002	2.7049	7.0500e-003	0.6818	4.4300e-003	0.6863	0.1809	4.0800e-003	0.1849		701.9011	701.9011	0.0191		702.3779
Total	0.4905	4.2528	3.4834	0.0166	0.8986	0.0291	0.9277	0.2433	0.0277	0.2710		1,697.1694	1,697.1694	0.0679		1,698.8679

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	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422		2,894.3086	2,894.3086	0.8905		2,916.5709
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422		2,894.3086	2,894.3086	0.8905		2,916.5709

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.0848	0.0482	0.6518	1.7000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		169.1328	169.1328	4.6000e-003		169.2477
Total	0.0848	0.0482	0.6518	1.7000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		169.1328	169.1328	4.6000e-003		169.2477

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	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422	0.0000	2,894.3086	2,894.3086	0.8905		2,916.5709
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422	0.0000	2,894.3086	2,894.3086	0.8905		2,916.5709

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.0848	0.0482	0.6518	1.7000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		169.1328	169.1328	4.6000e-003		169.2477
Total	0.0848	0.0482	0.6518	1.7000e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		169.1328	169.1328	4.6000e-003		169.2477

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	46.1334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4174	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017		440.9353	440.9353	0.0372		441.8663
Total	46.5509	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017		440.9353	440.9353	0.0372		441.8663

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.0721	0.0410	0.5540	1.4400e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		143.7629	143.7629	3.9100e-003		143.8605
Total	0.0721	0.0410	0.5540	1.4400e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		143.7629	143.7629	3.9100e-003		143.8605

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	46.1334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4174	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017	0.0000	440.9353	440.9353	0.0372		441.8663
Total	46.5509	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017	0.0000	440.9353	440.9353	0.0372		441.8663

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.0721	0.0410	0.5540	1.4400e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		143.7629	143.7629	3.9100e-003		143.8605
Total	0.0721	0.0410	0.5540	1.4400e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		143.7629	143.7629	3.9100e-003		143.8605

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Rocklin Self Storage Project - Placer-Sacramento 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	0.5306	2.9488	5.6741	0.0187	1.2970	0.0226	1.3196	0.3476	0.0213	0.3689		1,893.523 4	1,893.523 4	0.0770		1,895.449 3
Unmitigated	0.5306	2.9488	5.6741	0.0187	1.2970	0.0226	1.3196	0.3476	0.0213	0.3689		1,893.523 4	1,893.523 4	0.0770		1,895.449 3

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	161.21	208.18	201.78	507,159	507,159
Total	161.21	208.18	201.78	507,159	507,159

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Rocklin Self Storage Project - Placer-Sacramento County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Other Non-Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Unrefrigerated Warehouse-No Rail	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

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	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
NaturalGas Unmitigated	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

Rocklin Self Storage Project - Placer-Sacramento 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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	1787.13	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Total		0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	1.78713	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Total		0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

Rocklin Self Storage Project - Placer-Sacramento County, Summer

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Unmitigated	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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	0.1390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9300e-003	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Total	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

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	0.1390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9300e-003	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Total	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

7.0 Water Detail

Rocklin Self Storage Project - Placer-Sacramento County, Summer

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
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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
----------------	--------	-----------	------------	-------------	-------------	-----------

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

CalEEMod Model Output File
Daily Winter Period

Rocklin Self Storage Project - Placer-Sacramento County, Winter

Rocklin Self Storage Project
Placer-Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Unrefrigerated Warehouse-No Rail	106.76	1000sqft	2.45	106,760.00	0
Other Asphalt Surfaces	0.03	1000sqft	0.00	31.00	0
Other Non-Asphalt Surfaces	90.84	1000sqft	2.09	90,839.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	307	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Rocklin Self Storage Project - Placer-Sacramento County, Winter

Project Characteristics - CO2 intensity factor of 307 lb/MWh from PG&E 2015.

Land Use - Land use quantities from project site plan and Orr pers. comm.

Construction Phase - Construction schedule per Orr pers comm.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Off-road Equipment - Hours/Day increased to reflect compressed construction schedule.

Grading - No changes. All values shown are CalEEMod default.

Vehicle Trips - ITE Trip Generation 10th Edition LU Code 151 Mini-Warehouse: 1.51 weekday, 1.95 Saturday, 1.89 Sunday.

Energy Use -

Architectural Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Area Coating - VOC content per PCAPCD Rule 218. Rates for flat coatings used per Inthavong pers. comm.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblArchitecturalCoating	EF_Residential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	50.00
tblAreaCoating	Area_EF_Nonresidential_Exterior	100	50
tblAreaCoating	Area_EF_Nonresidential_Interior	100	50
tblAreaCoating	Area_EF_Parking	100	50
tblAreaCoating	Area_EF_Residential_Exterior	100	50
tblAreaCoating	Area_EF_Residential_Interior	100	50
tblConstructionPhase	NumDays	5.00	3.00
tblConstructionPhase	NumDays	8.00	5.00

Rocklin Self Storage Project - Placer-Sacramento County, Winter

tblConstructionPhase	NumDays	230.00	146.00
tblConstructionPhase	NumDays	18.00	11.00
tblConstructionPhase	NumDays	18.00	11.00
tblGrading	AcresOfGrading	3.94	4.00
tblLandUse	LandUseSquareFeet	30.00	31.00
tblLandUse	LandUseSquareFeet	90,840.00	90,839.00
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	6.00	9.40
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	7.00	11.00
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblOffRoadEquipment	UsageHours	8.00	12.60
tblProjectCharacteristics	CO2IntensityFactor	641.35	307
tblVehicleTrips	ST_TR	1.68	1.95
tblVehicleTrips	SU_TR	1.68	1.89
tblVehicleTrips	WD_TR	1.68	1.51

Rocklin Self Storage Project - Placer-Sacramento County, Winter

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	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
Year	lb/day										lb/day					
2019	46.6206	71.8315	35.2791	0.0612	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,067.686 4	6,067.686 4	1.8807	0.0000	6,114.7031
Maximum	46.6206	71.8315	35.2791	0.0612	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,067.686 4	6,067.686 4	1.8807	0.0000	6,114.703 1

Mitigated Construction

	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
Year	lb/day										lb/day					
2019	46.6206	71.8315	35.2791	0.0612	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,067.686 4	6,067.686 4	1.8807	0.0000	6,114.7031
Maximum	46.6206	71.8315	35.2791	0.0612	28.6022	3.7658	32.3680	15.6800	3.4645	19.1446	0.0000	6,067.686 4	6,067.686 4	1.8807	0.0000	6,114.703 1

Rocklin Self Storage Project - Placer-Sacramento 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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Energy	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Mobile	0.4388	3.1035	5.5156	0.0172	1.2970	0.0229	1.3199	0.3476	0.0217	0.3692		1,739.1119	1,739.1119	0.0794		1,741.0968
Total	2.9159	3.2789	5.6831	0.0182	1.2970	0.0363	1.3333	0.3476	0.0350	0.3826		1,949.4061	1,949.4061	0.0836	3.8500e-003	1,952.6434

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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Energy	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Mobile	0.4388	3.1035	5.5156	0.0172	1.2970	0.0229	1.3199	0.3476	0.0217	0.3692		1,739.1119	1,739.1119	0.0794		1,741.0968
Total	2.9159	3.2789	5.6831	0.0182	1.2970	0.0363	1.3333	0.3476	0.0350	0.3826		1,949.4061	1,949.4061	0.0836	3.8500e-003	1,952.6434

Rocklin Self Storage Project - Placer-Sacramento County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	4/15/2019	4/17/2019	5	3	
2	Grading	Grading	4/18/2019	4/24/2019	5	5	
3	Building Construction	Building Construction	4/25/2019	11/14/2019	5	146	
4	Paving	Paving	11/15/2019	11/29/2019	5	11	
5	Architectural Coating	Architectural Coating	12/2/2019	12/16/2019	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.09

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 160,140; Non-Residential Outdoor: 53,380; Striped Parking Area: 5,452 (Architectural Coating – sqft)

OffRoad Equipment

Rocklin Self Storage Project - Placer-Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	12.60	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	12.60	97	0.37
Grading	Excavators	1	12.60	158	0.38
Grading	Graders	1	12.60	187	0.41
Grading	Rubber Tired Dozers	1	12.60	247	0.40
Grading	Tractors/Loaders/Backhoes	3	12.60	97	0.37
Building Construction	Cranes	1	11.00	231	0.29
Building Construction	Forklifts	3	12.60	89	0.20
Building Construction	Generator Sets	1	12.60	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	11.00	97	0.37
Building Construction	Welders	1	12.60	46	0.45
Paving	Cement and Mortar Mixers	2	9.40	9	0.56
Paving	Pavers	1	12.60	130	0.42
Paving	Paving Equipment	2	9.40	132	0.36
Paving	Rollers	2	9.40	80	0.38
Paving	Tractors/Loaders/Backhoes	1	12.60	97	0.37
Architectural Coating	Air Compressors	1	9.40	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	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	83.00	32.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	17.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Rocklin Self Storage Project - Placer-Sacramento County, Winter

3.1 Mitigation Measures Construction

3.2 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	lb/day										lb/day					
Fugitive Dust					28.4544	0.0000	28.4544	15.6408	0.0000	15.6408			0.0000			0.0000
Off-Road	6.8276	71.7770	34.7492	0.0599		3.7648	3.7648		3.4636	3.4636		5,932.163 3	5,932.163 3	1.8769		5,979.085 1
Total	6.8276	71.7770	34.7492	0.0599	28.4544	3.7648	32.2192	15.6408	3.4636	19.1045		5,932.163 3	5,932.163 3	1.8769		5,979.085 1

Rocklin Self Storage Project - Placer-Sacramento County, Winter

3.2 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	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	0.0738	0.0545	0.5298	1.3600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		135.5231	135.5231	3.7900e-003		135.6179
Total	0.0738	0.0545	0.5298	1.3600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		135.5231	135.5231	3.7900e-003		135.6179

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					28.4544	0.0000	28.4544	15.6408	0.0000	15.6408			0.0000			0.0000
Off-Road	6.8276	71.7770	34.7492	0.0599		3.7648	3.7648		3.4636	3.4636	0.0000	5,932.1633	5,932.1633	1.8769		5,979.0851
Total	6.8276	71.7770	34.7492	0.0599	28.4544	3.7648	32.2192	15.6408	3.4636	19.1045	0.0000	5,932.1633	5,932.1633	1.8769		5,979.0851

Rocklin Self Storage Project - Placer-Sacramento County, Winter

3.2 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	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	0.0738	0.0545	0.5298	1.3600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		135.5231	135.5231	3.7900e-003		135.6179
Total	0.0738	0.0545	0.5298	1.3600e-003	0.1479	9.6000e-004	0.1488	0.0392	8.8000e-004	0.0401		135.5231	135.5231	3.7900e-003		135.6179

3.3 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	lb/day										lb/day					
Fugitive Dust					10.3332	0.0000	10.3332	5.3052	0.0000	5.3052			0.0000			0.0000
Off-Road	4.0642	44.6481	25.6621	0.0467		2.2008	2.2008		2.0248	2.0248		4,625.4707	4,625.4707	1.4635		4,662.0569
Total	4.0642	44.6481	25.6621	0.0467	10.3332	2.2008	12.5340	5.3052	2.0248	7.3300		4,625.4707	4,625.4707	1.4635		4,662.0569

Rocklin Self Storage Project - Placer-Sacramento County, Winter

3.3 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	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	0.0615	0.0454	0.4415	1.1300e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		112.9359	112.9359	3.1600e-003		113.0149
Total	0.0615	0.0454	0.4415	1.1300e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		112.9359	112.9359	3.1600e-003		113.0149

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					10.3332	0.0000	10.3332	5.3052	0.0000	5.3052			0.0000			0.0000
Off-Road	4.0642	44.6481	25.6621	0.0467		2.2008	2.2008		2.0248	2.0248	0.0000	4,625.4707	4,625.4707	1.4635		4,662.0569
Total	4.0642	44.6481	25.6621	0.0467	10.3332	2.2008	12.5340	5.3052	2.0248	7.3300	0.0000	4,625.4707	4,625.4707	1.4635		4,662.0569

Rocklin Self Storage Project - Placer-Sacramento County, Winter

3.3 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	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	0.0615	0.0454	0.4415	1.1300e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		112.9359	112.9359	3.1600e-003		113.0149
Total	0.0615	0.0454	0.4415	1.1300e-003	0.1232	8.0000e-004	0.1240	0.0327	7.4000e-004	0.0334		112.9359	112.9359	3.1600e-003		113.0149

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	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080		4,077.0705	4,077.0705	0.9929		4,101.8923
Total	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080		4,077.0705	4,077.0705	0.9929		4,101.8923

Rocklin Self Storage Project - Placer-Sacramento County, Winter

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	0.1463	4.1061	0.9393	9.2000e-003	0.2168	0.0253	0.2421	0.0624	0.0242	0.0866		962.2071	962.2071	0.0551		963.5842
Worker	0.3405	0.2511	2.4430	6.2800e-003	0.6818	4.4300e-003	0.6863	0.1809	4.0800e-003	0.1849		624.9119	624.9119	0.0175		625.3493
Total	0.4867	4.3572	3.3823	0.0155	0.8986	0.0298	0.9283	0.2433	0.0283	0.2716		1,587.1190	1,587.1190	0.0726		1,588.9335

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	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080	0.0000	4,077.0705	4,077.0705	0.9929		4,101.8923
Total	3.7151	33.1584	27.0042	0.0423		2.0293	2.0293		1.9080	1.9080	0.0000	4,077.0705	4,077.0705	0.9929		4,101.8923

Rocklin Self Storage Project - Placer-Sacramento 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	0.1463	4.1061	0.9393	9.2000e-003	0.2168	0.0253	0.2421	0.0624	0.0242	0.0866		962.2071	962.2071	0.0551		963.5842
Worker	0.3405	0.2511	2.4430	6.2800e-003	0.6818	4.4300e-003	0.6863	0.1809	4.0800e-003	0.1849		624.9119	624.9119	0.0175		625.3493
Total	0.4867	4.3572	3.3823	0.0155	0.8986	0.0298	0.9283	0.2433	0.0283	0.2716		1,587.1190	1,587.1190	0.0726		1,588.9335

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	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422		2,894.3086	2,894.3086	0.8905		2,916.5709
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422		2,894.3086	2,894.3086	0.8905		2,916.5709

Rocklin Self Storage Project - Placer-Sacramento 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	0.0820	0.0605	0.5887	1.5100e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		150.5812	150.5812	4.2200e-003		150.6866
Total	0.0820	0.0605	0.5887	1.5100e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		150.5812	150.5812	4.2200e-003		150.6866

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	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422	0.0000	2,894.3086	2,894.3086	0.8905		2,916.5709
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9907	20.0368	19.3338	0.0297		1.1299	1.1299		1.0422	1.0422	0.0000	2,894.3086	2,894.3086	0.8905		2,916.5709

Rocklin Self Storage Project - Placer-Sacramento 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	0.0820	0.0605	0.5887	1.5100e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		150.5812	150.5812	4.2200e-003		150.6866
Total	0.0820	0.0605	0.5887	1.5100e-003	0.1643	1.0700e-003	0.1654	0.0436	9.8000e-004	0.0446		150.5812	150.5812	4.2200e-003		150.6866

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	46.1334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4174	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017		440.9353	440.9353	0.0372		441.8663
Total	46.5509	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017		440.9353	440.9353	0.0372		441.8663

Rocklin Self Storage Project - Placer-Sacramento 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	0.0697	0.0514	0.5004	1.2900e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		127.9940	127.9940	3.5800e-003		128.0836
Total	0.0697	0.0514	0.5004	1.2900e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		127.9940	127.9940	3.5800e-003		128.0836

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	46.1334					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4174	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017	0.0000	440.9353	440.9353	0.0372		441.8663
Total	46.5509	2.8754	2.8847	4.6600e-003		0.2017	0.2017		0.2017	0.2017	0.0000	440.9353	440.9353	0.0372		441.8663

Rocklin Self Storage Project - Placer-Sacramento 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	0.0697	0.0514	0.5004	1.2900e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		127.9940	127.9940	3.5800e-003		128.0836
Total	0.0697	0.0514	0.5004	1.2900e-003	0.1397	9.1000e-004	0.1406	0.0370	8.4000e-004	0.0379		127.9940	127.9940	3.5800e-003		128.0836

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Rocklin Self Storage Project - Placer-Sacramento 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	0.4388	3.1035	5.5156	0.0172	1.2970	0.0229	1.3199	0.3476	0.0217	0.3692		1,739.1119	1,739.1119	0.0794		1,741.0968
Unmitigated	0.4388	3.1035	5.5156	0.0172	1.2970	0.0229	1.3199	0.3476	0.0217	0.3692		1,739.1119	1,739.1119	0.0794		1,741.0968

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	161.21	208.18	201.78	507,159	507,159
Total	161.21	208.18	201.78	507,159	507,159

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
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	9.50	7.30	7.30	59.00	0.00	41.00	92	5	3

4.4 Fleet Mix

Rocklin Self Storage Project - Placer-Sacramento County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Other Non-Asphalt Surfaces	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444
Unrefrigerated Warehouse-No Rail	0.483320	0.042482	0.220179	0.137288	0.028029	0.006922	0.026094	0.044447	0.001489	0.001255	0.006257	0.000793	0.001444

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	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
NaturalGas Unmitigated	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

Rocklin Self Storage Project - Placer-Sacramento County, Winter

5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas 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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	1787.13	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Total		0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

Mitigated

	Natural Gas 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					
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
Other Non-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
Unrefrigerated Warehouse-No Rail	1.78713	0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004
Total		0.0193	0.1752	0.1472	1.0500e-003		0.0133	0.0133		0.0133	0.0133		210.2510	210.2510	4.0300e-003	3.8500e-003	211.5004

Rocklin Self Storage Project - Placer-Sacramento County, Winter

6.0 Area Detail

6.1 Mitigation Measures Area

	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	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Unmitigated	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

Rocklin Self Storage Project - Placer-Sacramento County, Winter

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	0.1390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9300e-003	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Total	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

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	0.1390					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.3169					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.9300e-003	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462
Total	2.4578	1.9000e-004	0.0204	0.0000		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005		0.0433	0.0433	1.2000e-004		0.0462

7.0 Water Detail

Rocklin Self Storage Project - Placer-Sacramento County, Winter

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
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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