

# Appendix D

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Air Quality and Greenhouse Gases  
Emissions and Climate Change  
Modeling Data

Resources Renovation Project Construction - Sacramento County, Annual

**Resources Renovation Project Construction  
Sacramento County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	657.00	1000sqft	0.91	657,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

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Project Characteristics - Climate Zone 6 based on 95814 Zipcode. Project construction to commence January 2022.

Land Use - Assumes ground disturbance of 0.91 acres of general office building (657,00 gsf)

Construction Phase - Assumes a construction start date of January 2022 and ends in September 2024

Off-road Equipment - Addition of 2 cranes to account for building height

Off-road Equipment - Addition of crane for demolition

Trips and VMT -

Demolition - 20,000 cubic yards (5,400 tons) of debris to be demolished

Grading - 0.91 acres of disturbed site.

Vehicle Trips - Assuming increase in 100 employees per year resulting in 554,000 annual VMT

Energy Use - Exceeds 2019 Title 24 by 15 percent; no natural gas use on- or off-site

Solid Waste - 59 tons per year based on 100 new employees and CalRecycle Data

Construction Off-road Equipment Mitigation - Assumes 30 percent Tier 4 Equipment; use of SMAQMD's BMPs for construction emissions

Energy Mitigation - Use of energy star equipment where applicable

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 1 1,139 HP generator in use 500 hours per year

Architectural Coating -

Off-road Equipment -

Water And Wastewater - placeholders for now.

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	31.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	100.00	629.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	PhaseEndDate	1/14/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	1/17/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	6/6/2022	7/17/2024
tblConstructionPhase	PhaseEndDate	6/13/2022	8/8/2024
tblConstructionPhase	PhaseEndDate	6/20/2022	8/30/2024
tblConstructionPhase	PhaseStartDate	1/15/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	1/18/2022	2/18/2022
tblConstructionPhase	PhaseStartDate	6/7/2022	7/18/2024
tblConstructionPhase	PhaseStartDate	6/14/2022	8/9/2024
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	4.98	2.96
tblEnergyUse	T24NG	12.42	0.00
tblGrading	AcresOfGrading	1.50	0.50
tblLandUse	LotAcreage	15.08	0.91
tblOffRoadEquipment	LoadFactor	0.29	0.29
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblSolidWaste	SolidWasteGenerationRate	611.01	59.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,139.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00

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tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.15
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.55
tblWater	IndoorWaterUseRate	116,771,072.43	20,000.00
tblWater	OutdoorWaterUseRate	71,569,366.97	20,000.00

## 2.0 Emissions Summary

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**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					
2022	0.2100	2.2668	1.8390	6.3400e-003	0.3122	0.0548	0.3669	0.0778	0.0507	0.1284			587.2732	0.0631	0.0000	588.8512
2023	0.1973	2.0370	1.8189	6.5700e-003	0.2826	0.0446	0.3272	0.0770	0.0411	0.1182			610.0229	0.0622	0.0000	611.5773
2024	3.1550	1.1262	1.0436	3.7100e-003	0.1589	0.0242	0.1832	0.0433	0.0224	0.0657			343.3630	0.0363	0.0000	344.2696
<b>Maximum</b>	<b>3.1550</b>	<b>2.2668</b>	<b>1.8390</b>	<b>6.5700e-003</b>	<b>0.3122</b>	<b>0.0548</b>	<b>0.3669</b>	<b>0.0778</b>	<b>0.0507</b>	<b>0.1284</b>			<b>610.0229</b>	<b>0.0631</b>	<b>0.0000</b>	<b>611.5773</b>

**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					
2022	0.1841	1.9632	1.8760	6.3400e-003	0.2789	0.0396	0.3185	0.0727	0.0366	0.1094			587.2731	0.0631	0.0000	588.8510
2023	0.1784	1.8053	1.8532	6.5700e-003	0.2826	0.0337	0.3163	0.0770	0.0311	0.1082			610.0228	0.0622	0.0000	611.5772
2024	3.1444	1.0011	1.0599	3.7100e-003	0.1589	0.0186	0.1775	0.0433	0.0172	0.0605			343.3629	0.0363	0.0000	344.2695
<b>Maximum</b>	<b>3.1444</b>	<b>1.9632</b>	<b>1.8760</b>	<b>6.5700e-003</b>	<b>0.2826</b>	<b>0.0396</b>	<b>0.3185</b>	<b>0.0770</b>	<b>0.0366</b>	<b>0.1094</b>			<b>610.0228</b>	<b>0.0631</b>	<b>0.0000</b>	<b>611.5772</b>

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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	1.55	12.16	-1.87	0.00	4.41	25.67	7.41	2.54	25.59	10.97	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	1-1-2022	3-31-2022	0.5612	0.4369
2	4-1-2022	6-30-2022	0.6340	0.5649
3	7-1-2022	9-30-2022	0.6410	0.5711
4	10-1-2022	12-31-2022	0.6475	0.5777
5	1-1-2023	3-31-2023	0.5547	0.4927
6	4-1-2023	6-30-2023	0.5566	0.4940
7	7-1-2023	9-30-2023	0.5627	0.4994
8	10-1-2023	12-31-2023	0.5670	0.5037
9	1-1-2024	3-31-2024	0.5366	0.4787
10	4-1-2024	6-30-2024	0.5327	0.4748
11	7-1-2024	9-30-2024	3.1493	3.1303
		Highest	3.1493	3.1303

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**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8712	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			2,184.9065	0.1073	0.0222	2,194.2078
Mobile	0.0602	0.2478	0.6389	2.2100e-003	0.2094	1.7600e-003	0.2112	0.0561	1.6400e-003	0.0578			203.5097	9.0000e-003	0.0000	203.7348
Stationary	0.4672	2.0897	1.1915	2.2500e-003		0.0687	0.0687		0.0687	0.0687			216.8640	0.0304	0.0000	217.6241
Waste						0.0000	0.0000		0.0000	0.0000			11.9765	0.7078	0.0000	29.6712
Water						0.0000	0.0000		0.0000	0.0000			0.0525	3.0000e-005	2.0000e-005	0.0579
<b>Total</b>	<b>3.3986</b>	<b>2.3376</b>	<b>1.8388</b>	<b>4.4600e-003</b>	<b>0.2094</b>	<b>0.0705</b>	<b>0.2800</b>	<b>0.0561</b>	<b>0.0704</b>	<b>0.1265</b>			<b>2,617.3255</b>	<b>0.8546</b>	<b>0.0222</b>	<b>2,645.3131</b>



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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	2.8712	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			1,849.3421	0.0909	0.0188	1,857.2149
Mobile	0.0602	0.2478	0.6389	2.2100e-003	0.2094	1.7600e-003	0.2112	0.0561	1.6400e-003	0.0578			203.5097	9.0000e-003	0.0000	203.7348
Stationary	0.4672	2.0897	1.1915	2.2500e-003		0.0687	0.0687		0.0687	0.0687			216.8640	0.0304	0.0000	217.6241
Waste						0.0000	0.0000		0.0000	0.0000			11.9765	0.7078	0.0000	29.6712
Water						0.0000	0.0000		0.0000	0.0000			0.0525	3.0000e-005	2.0000e-005	0.0579
<b>Total</b>	<b>3.3986</b>	<b>2.3376</b>	<b>1.8388</b>	<b>4.4600e-003</b>	<b>0.2094</b>	<b>0.0705</b>	<b>0.2800</b>	<b>0.0561</b>	<b>0.0704</b>	<b>0.1265</b>			<b>2,281.7611</b>	<b>0.8381</b>	<b>0.0188</b>	<b>2,308.3203</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
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	12.82	1.93	15.34	12.74

**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	1/1/2022	2/14/2022	5	31	
2	Site Preparation	Site Preparation	2/15/2022	2/17/2022	5	3	
3	Building Construction	Building Construction	2/18/2022	7/17/2024	5	629	
4	Paving	Paving	7/18/2024	8/8/2024	5	16	
5	Architectural Coating	Architectural Coating	8/9/2024	8/30/2024	5	16	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 985,500; Non-Residential Outdoor: 328,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	534.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	210.00	108.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

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Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**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					0.0602	0.0000	0.0602	9.1200e-003	0.0000	9.1200e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0167	0.1639	0.1449	2.7000e-004	7.9100e-003	7.9100e-003		7.4600e-003	7.4600e-003				23.9475	5.5000e-003	0.0000	24.0851
<b>Total</b>	<b>0.0167</b>	<b>0.1639</b>	<b>0.1449</b>	<b>2.7000e-004</b>	<b>0.0602</b>	<b>7.9100e-003</b>	<b>0.0682</b>	<b>9.1200e-003</b>	<b>7.4600e-003</b>	<b>0.0166</b>			<b>23.9475</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>24.0851</b>

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**3.2 Demolition - 2022**

**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	1.7800e-003	0.0646	0.0154	2.0000e-004	4.5000e-003	2.1000e-004	4.7100e-003	1.2400e-003	2.0000e-004	1.4300e-003			19.9474	1.1400e-003	0.0000	19.9760
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	6.5000e-004	4.1000e-004	4.6900e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.2212	3.0000e-005	0.0000	1.2220
<b>Total</b>	<b>2.4300e-003</b>	<b>0.0650</b>	<b>0.0201</b>	<b>2.1000e-004</b>	<b>5.9800e-003</b>	<b>2.2000e-004</b>	<b>6.2000e-003</b>	<b>1.6300e-003</b>	<b>2.1000e-004</b>	<b>1.8300e-003</b>			<b>21.1686</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>21.1980</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0271	0.0000	0.0271	4.1000e-003	0.0000	4.1000e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	8.8700e-003	0.0832	0.1542	2.7000e-004		3.7900e-003	3.7900e-003		3.5100e-003	3.5100e-003			23.9475	5.5000e-003	0.0000	24.0851
<b>Total</b>	<b>8.8700e-003</b>	<b>0.0832</b>	<b>0.1542</b>	<b>2.7000e-004</b>	<b>0.0271</b>	<b>3.7900e-003</b>	<b>0.0309</b>	<b>4.1000e-003</b>	<b>3.5100e-003</b>	<b>7.6100e-003</b>			<b>23.9475</b>	<b>5.5000e-003</b>	<b>0.0000</b>	<b>24.0851</b>

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**3.2 Demolition - 2022**

**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	1.7800e-003	0.0646	0.0154	2.0000e-004	4.5000e-003	2.1000e-004	4.7100e-003	1.2400e-003	2.0000e-004	1.4300e-003			19.9474	1.1400e-003	0.0000	19.9760
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	6.5000e-004	4.1000e-004	4.6900e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004			1.2212	3.0000e-005	0.0000	1.2220
<b>Total</b>	<b>2.4300e-003</b>	<b>0.0650</b>	<b>0.0201</b>	<b>2.1000e-004</b>	<b>5.9800e-003</b>	<b>2.2000e-004</b>	<b>6.2000e-003</b>	<b>1.6300e-003</b>	<b>2.1000e-004</b>	<b>1.8300e-003</b>			<b>21.1686</b>	<b>1.1700e-003</b>	<b>0.0000</b>	<b>21.1980</b>

**3.3 Site Preparation - 2022**

**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					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	0.0104	5.9400e-003	1.0000e-005		3.9000e-004	3.9000e-004		3.6000e-004	3.6000e-004			1.2826	4.1000e-004	0.0000	1.2929
<b>Total</b>	<b>8.7000e-004</b>	<b>0.0104</b>	<b>5.9400e-003</b>	<b>1.0000e-005</b>	<b>2.7000e-004</b>	<b>3.9000e-004</b>	<b>6.6000e-004</b>	<b>3.0000e-005</b>	<b>3.6000e-004</b>	<b>3.9000e-004</b>			<b>1.2826</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2929</b>

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**3.3 Site Preparation - 2022**

**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
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	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0455	0.0000	0.0000	0.0455
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>			<b>0.0455</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0455</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.2000e-004	0.0000	1.2000e-004	1.0000e-005	0.0000	1.0000e-005			0.0000	0.0000	0.0000	0.0000
Off-Road	8.1000e-004	9.6500e-003	5.9900e-003	1.0000e-005		3.4000e-004	3.4000e-004		3.2000e-004	3.2000e-004			1.2826	4.1000e-004	0.0000	1.2929
<b>Total</b>	<b>8.1000e-004</b>	<b>9.6500e-003</b>	<b>5.9900e-003</b>	<b>1.0000e-005</b>	<b>1.2000e-004</b>	<b>3.4000e-004</b>	<b>4.6000e-004</b>	<b>1.0000e-005</b>	<b>3.2000e-004</b>	<b>3.3000e-004</b>			<b>1.2826</b>	<b>4.1000e-004</b>	<b>0.0000</b>	<b>1.2929</b>

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**3.3 Site Preparation - 2022**

**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
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	2.0000e-005	2.0000e-005	1.7000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	1.0000e-005			0.0455	0.0000	0.0000	0.0455
<b>Total</b>	<b>2.0000e-005</b>	<b>2.0000e-005</b>	<b>1.7000e-004</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>0.0000</b>	<b>6.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>1.0000e-005</b>			<b>0.0455</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0455</b>

**3.4 Building Construction - 2022**

**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	0.0776	0.7939	0.8083	1.2900e-003		0.0420	0.0420		0.0387	0.0387			113.1669	0.0366	0.0000	114.0819
<b>Total</b>	<b>0.0776</b>	<b>0.7939</b>	<b>0.8083</b>	<b>1.2900e-003</b>		<b>0.0420</b>	<b>0.0420</b>		<b>0.0387</b>	<b>0.0387</b>			<b>113.1669</b>	<b>0.0366</b>	<b>0.0000</b>	<b>114.0819</b>



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**3.4 Building Construction - 2022**

**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
Vendor	0.0356	1.1854	0.3077	2.9500e-003	0.0713	3.0300e-003	0.0744	0.0206	2.8900e-003	0.0235			283.8431	0.0159	0.0000	284.2408
Worker	0.0768	0.0483	0.5519	1.5900e-003	0.1743	1.1900e-003	0.1755	0.0464	1.0900e-003	0.0475			143.8191	3.5200e-003	0.0000	143.9070
<b>Total</b>	<b>0.1124</b>	<b>1.2337</b>	<b>0.8596</b>	<b>4.5400e-003</b>	<b>0.2456</b>	<b>4.2200e-003</b>	<b>0.2498</b>	<b>0.0670</b>	<b>3.9800e-003</b>	<b>0.0710</b>			<b>427.6622</b>	<b>0.0194</b>	<b>0.0000</b>	<b>428.1478</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0596	0.5717	0.8360	1.2900e-003		0.0310	0.0310		0.0286	0.0286			113.1668	0.0366	0.0000	114.0818
<b>Total</b>	<b>0.0596</b>	<b>0.5717</b>	<b>0.8360</b>	<b>1.2900e-003</b>		<b>0.0310</b>	<b>0.0310</b>		<b>0.0286</b>	<b>0.0286</b>			<b>113.1668</b>	<b>0.0366</b>	<b>0.0000</b>	<b>114.0818</b>

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**3.4 Building Construction - 2022**

**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
Vendor	0.0356	1.1854	0.3077	2.9500e-003	0.0713	3.0300e-003	0.0744	0.0206	2.8900e-003	0.0235			283.8431	0.0159	0.0000	284.2408
Worker	0.0768	0.0483	0.5519	1.5900e-003	0.1743	1.1900e-003	0.1755	0.0464	1.0900e-003	0.0475			143.8191	3.5200e-003	0.0000	143.9070
<b>Total</b>	<b>0.1124</b>	<b>1.2337</b>	<b>0.8596</b>	<b>4.5400e-003</b>	<b>0.2456</b>	<b>4.2200e-003</b>	<b>0.2498</b>	<b>0.0670</b>	<b>3.9800e-003</b>	<b>0.0710</b>			<b>427.6622</b>	<b>0.0194</b>	<b>0.0000</b>	<b>428.1478</b>

**3.4 Building Construction - 2023**

**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	0.0822	0.8344	0.9226	1.4800e-003		0.0416	0.0416		0.0383	0.0383			130.2710	0.0421	0.0000	131.3243
<b>Total</b>	<b>0.0822</b>	<b>0.8344</b>	<b>0.9226</b>	<b>1.4800e-003</b>		<b>0.0416</b>	<b>0.0416</b>		<b>0.0383</b>	<b>0.0383</b>			<b>130.2710</b>	<b>0.0421</b>	<b>0.0000</b>	<b>131.3243</b>

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**3.4 Building Construction - 2023**

**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
Vendor	0.0324	1.1526	0.3131	3.3300e-003	0.0821	1.6600e-003	0.0837	0.0237	1.5800e-003	0.0253			320.5095	0.0164	0.0000	320.9199
Worker	0.0827	0.0500	0.5831	1.7600e-003	0.2005	1.3300e-003	0.2018	0.0533	1.2300e-003	0.0546			159.2424	3.6300e-003	0.0000	159.3332
<b>Total</b>	<b>0.1151</b>	<b>1.2025</b>	<b>0.8963</b>	<b>5.0900e-003</b>	<b>0.2826</b>	<b>2.9900e-003</b>	<b>0.2856</b>	<b>0.0770</b>	<b>2.8100e-003</b>	<b>0.0799</b>			<b>479.7519</b>	<b>0.0200</b>	<b>0.0000</b>	<b>480.2531</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0634	0.6028	0.9570	1.4800e-003		0.0307	0.0307		0.0283	0.0283			130.2708	0.0421	0.0000	131.3241
<b>Total</b>	<b>0.0634</b>	<b>0.6028</b>	<b>0.9570</b>	<b>1.4800e-003</b>		<b>0.0307</b>	<b>0.0307</b>		<b>0.0283</b>	<b>0.0283</b>			<b>130.2708</b>	<b>0.0421</b>	<b>0.0000</b>	<b>131.3241</b>

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**3.4 Building Construction - 2023**

**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
Vendor	0.0324	1.1526	0.3131	3.3300e-003	0.0821	1.6600e-003	0.0837	0.0237	1.5800e-003	0.0253			320.5095	0.0164	0.0000	320.9199
Worker	0.0827	0.0500	0.5831	1.7600e-003	0.2005	1.3300e-003	0.2018	0.0533	1.2300e-003	0.0546			159.2424	3.6300e-003	0.0000	159.3332
<b>Total</b>	<b>0.1151</b>	<b>1.2025</b>	<b>0.8963</b>	<b>5.0900e-003</b>	<b>0.2826</b>	<b>2.9900e-003</b>	<b>0.2856</b>	<b>0.0770</b>	<b>2.8100e-003</b>	<b>0.0799</b>			<b>479.7519</b>	<b>0.0200</b>	<b>0.0000</b>	<b>480.2531</b>

**3.4 Building Construction - 2024**

**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	0.0425	0.4271	0.5053	8.2000e-004		0.0202	0.0202		0.0186	0.0186			71.6733	0.0232	0.0000	72.2528
<b>Total</b>	<b>0.0425</b>	<b>0.4271</b>	<b>0.5053</b>	<b>8.2000e-004</b>		<b>0.0202</b>	<b>0.0202</b>		<b>0.0186</b>	<b>0.0186</b>			<b>71.6733</b>	<b>0.0232</b>	<b>0.0000</b>	<b>72.2528</b>

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**3.4 Building Construction - 2024**

**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
Vendor	0.0170	0.6218	0.1610	1.8200e-003	0.0451	8.6000e-004	0.0460	0.0130	8.3000e-004	0.0139			175.2569	8.9200e-003	0.0000	175.4798
Worker	0.0428	0.0248	0.2970	9.3000e-004	0.1103	7.2000e-004	0.1110	0.0293	6.6000e-004	0.0300			84.1787	1.8000e-003	0.0000	84.2237
<b>Total</b>	<b>0.0598</b>	<b>0.6467</b>	<b>0.4580</b>	<b>2.7500e-003</b>	<b>0.1554</b>	<b>1.5800e-003</b>	<b>0.1570</b>	<b>0.0424</b>	<b>1.4900e-003</b>	<b>0.0439</b>			<b>259.4356</b>	<b>0.0107</b>	<b>0.0000</b>	<b>259.7035</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0329	0.3094	0.5251	8.2000e-004		0.0149	0.0149		0.0137	0.0137			71.6732	0.0232	0.0000	72.2528
<b>Total</b>	<b>0.0329</b>	<b>0.3094</b>	<b>0.5251</b>	<b>8.2000e-004</b>		<b>0.0149</b>	<b>0.0149</b>		<b>0.0137</b>	<b>0.0137</b>			<b>71.6732</b>	<b>0.0232</b>	<b>0.0000</b>	<b>72.2528</b>

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**3.4 Building Construction - 2024**

**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
Vendor	0.0170	0.6218	0.1610	1.8200e-003	0.0451	8.6000e-004	0.0460	0.0130	8.3000e-004	0.0139			175.2569	8.9200e-003	0.0000	175.4798
Worker	0.0428	0.0248	0.2970	9.3000e-004	0.1103	7.2000e-004	0.1110	0.0293	6.6000e-004	0.0300			84.1787	1.8000e-003	0.0000	84.2237
<b>Total</b>	<b>0.0598</b>	<b>0.6467</b>	<b>0.4580</b>	<b>2.7500e-003</b>	<b>0.1554</b>	<b>1.5800e-003</b>	<b>0.1570</b>	<b>0.0424</b>	<b>1.4900e-003</b>	<b>0.0439</b>			<b>259.4356</b>	<b>0.0107</b>	<b>0.0000</b>	<b>259.7035</b>

**3.5 Paving - 2024**

**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	4.7200e-003	0.0418	0.0563	9.0000e-005		1.9400e-003	1.9400e-003		1.8100e-003	1.8100e-003			7.5205	2.1900e-003	0.0000	7.5753
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>4.7200e-003</b>	<b>0.0418</b>	<b>0.0563</b>	<b>9.0000e-005</b>		<b>1.9400e-003</b>	<b>1.9400e-003</b>		<b>1.8100e-003</b>	<b>1.8100e-003</b>			<b>7.5205</b>	<b>2.1900e-003</b>	<b>0.0000</b>	<b>7.5753</b>

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**3.5 Paving - 2024**

**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
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	4.1000e-004	2.4000e-004	2.8500e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004			0.8073	2.0000e-005	0.0000	0.8077
<b>Total</b>	<b>4.1000e-004</b>	<b>2.4000e-004</b>	<b>2.8500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>			<b>0.8073</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8077</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.7700e-003	0.0345	0.0528	9.0000e-005		1.6300e-003	1.6300e-003		1.5100e-003	1.5100e-003			7.5205	2.1900e-003	0.0000	7.5752
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>3.7700e-003</b>	<b>0.0345</b>	<b>0.0528</b>	<b>9.0000e-005</b>		<b>1.6300e-003</b>	<b>1.6300e-003</b>		<b>1.5100e-003</b>	<b>1.5100e-003</b>			<b>7.5205</b>	<b>2.1900e-003</b>	<b>0.0000</b>	<b>7.5752</b>

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**3.5 Paving - 2024**

**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
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	4.1000e-004	2.4000e-004	2.8500e-003	1.0000e-005	1.0600e-003	1.0000e-005	1.0600e-003	2.8000e-004	1.0000e-005	2.9000e-004			0.8073	2.0000e-005	0.0000	0.8077
<b>Total</b>	<b>4.1000e-004</b>	<b>2.4000e-004</b>	<b>2.8500e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>1.0000e-005</b>	<b>1.0600e-003</b>	<b>2.8000e-004</b>	<b>1.0000e-005</b>	<b>2.9000e-004</b>			<b>0.8073</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.8077</b>

**3.6 Architectural Coating - 2024**

**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	3.0452					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7500e-003	0.0145	2.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004			2.0426	1.2000e-004	0.0000	2.0455
<b>Total</b>	<b>3.0467</b>	<b>9.7500e-003</b>	<b>0.0145</b>	<b>2.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>			<b>2.0426</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0455</b>



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**3.6 Architectural Coating - 2024**

**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
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	9.6000e-004	5.6000e-004	6.6500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004			1.8837	4.0000e-005	0.0000	1.8847
<b>Total</b>	<b>9.6000e-004</b>	<b>5.6000e-004</b>	<b>6.6500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4800e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>			<b>1.8837</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8847</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	3.0452					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	1.4500e-003	9.7500e-003	0.0145	2.0000e-005		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004			2.0426	1.2000e-004	0.0000	2.0455
<b>Total</b>	<b>3.0467</b>	<b>9.7500e-003</b>	<b>0.0145</b>	<b>2.0000e-005</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>		<b>4.9000e-004</b>	<b>4.9000e-004</b>			<b>2.0426</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>2.0455</b>

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**3.6 Architectural Coating - 2024**

**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
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	9.6000e-004	5.6000e-004	6.6500e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4800e-003	6.6000e-004	1.0000e-005	6.7000e-004			1.8837	4.0000e-005	0.0000	1.8847
<b>Total</b>	<b>9.6000e-004</b>	<b>5.6000e-004</b>	<b>6.6500e-003</b>	<b>2.0000e-005</b>	<b>2.4700e-003</b>	<b>2.0000e-005</b>	<b>2.4800e-003</b>	<b>6.6000e-004</b>	<b>1.0000e-005</b>	<b>6.7000e-004</b>			<b>1.8837</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>1.8847</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0602	0.2478	0.6389	2.2100e-003	0.2094	1.7600e-003	0.2112	0.0561	1.6400e-003	0.0578			203.5097	9.0000e-003	0.0000	203.7348
Unmitigated	0.0602	0.2478	0.6389	2.2100e-003	0.2094	1.7600e-003	0.2112	0.0561	1.6400e-003	0.0578			203.5097	9.0000e-003	0.0000	203.7348

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	361.35	98.55	0.00	562,092	562,092
Total	361.35	98.55	0.00	562,092	562,092

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 Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

Resources Renovation Project Construction - Sacramento County, Annual

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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			1,849.3421	0.0909	0.0188	1,857.2149
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			2,184.9065	0.1073	0.0222	2,194.2078
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

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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 Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

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**5.3 Energy by Land Use - Electricity**

**Unmitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	8.15994e+006	2,184.9065	0.1073	0.0222	2,194.2078
<b>Total</b>		<b>2,184.9065</b>	<b>0.1073</b>	<b>0.0222</b>	<b>2,194.2078</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	6.90671e+006	1,849.3421	0.0909	0.0188	1,857.2149
<b>Total</b>		<b>1,849.3421</b>	<b>0.0909</b>	<b>0.0188</b>	<b>1,857.2149</b>

**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	2.8712	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174
Unmitigated	2.8712	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174

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	0.3045					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5659					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	7.7000e-004	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174
<b>Total</b>	<b>2.8712</b>	<b>8.0000e-005</b>	<b>8.3600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>			<b>0.0163</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0174</b>

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**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.3045					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	2.5659					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Landscaping	7.7000e-004	8.0000e-005	8.3600e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005			0.0163	4.0000e-005	0.0000	0.0174
<b>Total</b>	<b>2.8712</b>	<b>8.0000e-005</b>	<b>8.3600e-003</b>	<b>0.0000</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>		<b>3.0000e-005</b>	<b>3.0000e-005</b>			<b>0.0163</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.0174</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**



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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0525	3.0000e-005	2.0000e-005	0.0579
Unmitigated	0.0525	3.0000e-005	2.0000e-005	0.0579

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.02 / 0.02	0.0525	3.0000e-005	2.0000e-005	0.0579
<b>Total</b>		<b>0.0525</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0579</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.02 / 0.02	0.0525	3.0000e-005	2.0000e-005	0.0579
<b>Total</b>		<b>0.0525</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0579</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.9765	0.7078	0.0000	29.6712
Unmitigated	11.9765	0.7078	0.0000	29.6712

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**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	59	11.9765	0.7078	0.0000	29.6712
<b>Total</b>		<b>11.9765</b>	<b>0.7078</b>	<b>0.0000</b>	<b>29.6712</b>

**Mitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	59	11.9765	0.7078	0.0000	29.6712
<b>Total</b>		<b>11.9765</b>	<b>0.7078</b>	<b>0.0000</b>	<b>29.6712</b>

**9.0 Operational Offroad**

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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
	0	0	0	0	0.73	
Emergency Generator	1	0	500	1139	0.73	Diesel

#### 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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### 10.1 Stationary Sources

#### Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.4672	2.0897	1.1915	2.2500e-003		0.0687	0.0687		0.0687	0.0687			216.8640	0.0304	0.0000	217.6241
<b>Total</b>	<b>0.4672</b>	<b>2.0897</b>	<b>1.1915</b>	<b>2.2500e-003</b>		<b>0.0687</b>	<b>0.0687</b>		<b>0.0687</b>	<b>0.0687</b>			<b>216.8640</b>	<b>0.0304</b>	<b>0.0000</b>	<b>217.6241</b>

### 11.0 Vegetation

Resources Renovation Project Construction - Sacramento County, Summer

**Resources Renovation Project Construction  
Sacramento County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	657.00	1000sqft	0.91	657,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Resources Renovation Project Construction - Sacramento County, Summer

Project Characteristics - Climate Zone 6 based on 95814 Zipcode. Project construction to commence January 2022.

Land Use - Assumes ground disturbance of 0.91 acres of general office building (657,00 gsf)

Construction Phase - Assumes a construction start date of January 2022 and ends in September 2024

Off-road Equipment - Addition of 2 cranes to account for building height

Off-road Equipment - Addition of crane for demolition

Trips and VMT -

Demolition - 20,000 cubic yards (5,400 tons) of debris to be demolished

Grading - 0.91 acres of disturbed site.

Vehicle Trips - Assuming increase in 100 employees per year resulting in 554,000 annual VMT

Energy Use - Exceeds 2019 Title 24 by 15 percent; no natural gas use on- or off-site

Solid Waste - 59 tons per year based on 100 new employees and CalRecycle Data

Construction Off-road Equipment Mitigation - Assumes 30 percent Tier 4 Equipment; use of SMAQMD's BMPs for construction emissions

Energy Mitigation - Use of energy star equipment where applicable

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 1 1,139 HP generator in use 500 hours per year (1.36 hours per day on average)

Architectural Coating -

Off-road Equipment -

Water And Wastewater - placeholders for now.

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Resources Renovation Project Construction - Sacramento County, Summer

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	31.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	100.00	629.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	PhaseEndDate	1/14/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	1/17/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	6/6/2022	7/17/2024
tblConstructionPhase	PhaseEndDate	6/13/2022	8/8/2024
tblConstructionPhase	PhaseEndDate	6/20/2022	8/30/2024
tblConstructionPhase	PhaseStartDate	1/15/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	1/18/2022	2/18/2022
tblConstructionPhase	PhaseStartDate	6/7/2022	7/18/2024
tblConstructionPhase	PhaseStartDate	6/14/2022	8/9/2024
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	4.98	2.96
tblEnergyUse	T24NG	12.42	0.00
tblGrading	AcresOfGrading	1.50	0.50
tblLandUse	LotAcreage	15.08	0.91
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblSolidWaste	SolidWasteGenerationRate	611.01	59.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,139.00

## Resources Renovation Project Construction - Sacramento County, Summer

tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.36
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.15
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.55
tblWater	IndoorWaterUseRate	116,771,072.43	20,000.00
tblWater	OutdoorWaterUseRate	71,569,366.97	20,000.00

## 2.0 Emissions Summary

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Resources Renovation Project Construction - Sacramento County, Summer

**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					
2022	1.7816	17.7262	15.4903	0.0534	4.2847	0.5251	4.8098	0.6966	0.4956	1.1922			5,455.1486	0.5454	0.0000	5,468.7842
2023	1.6113	15.5153	14.6862	0.0523	2.2472	0.3428	2.5900	0.6107	0.3158	0.9265			5,345.6535	0.5264	0.0000	5,358.8132
2024	380.9681	14.8733	14.1236	0.0516	2.2471	0.3041	2.5512	0.6107	0.2802	0.8909			5,271.8301	0.5215	0.0000	5,284.8671
<b>Maximum</b>	<b>380.9681</b>	<b>17.7262</b>	<b>15.4903</b>	<b>0.0534</b>	<b>4.2847</b>	<b>0.5251</b>	<b>4.8098</b>	<b>0.6966</b>	<b>0.4956</b>	<b>1.1922</b>			<b>5,455.1486</b>	<b>0.5454</b>	<b>0.0000</b>	<b>5,468.7842</b>

**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					
2022	1.6224	15.7596	15.7358	0.0534	2.2473	0.3113	2.5585	0.6107	0.2878	0.8985			5,455.1486	0.5454	0.0000	5,468.7842
2023	1.4663	13.7333	14.9505	0.0523	2.2472	0.2586	2.5058	0.6107	0.2388	0.8495			5,345.6535	0.5264	0.0000	5,358.8132
2024	380.9681	13.2268	14.4001	0.0516	2.2471	0.2295	2.4766	0.6107	0.2120	0.8227			5,271.8301	0.5215	0.0000	5,284.8671
<b>Maximum</b>	<b>380.9681</b>	<b>15.7596</b>	<b>15.7358</b>	<b>0.0534</b>	<b>2.2473</b>	<b>0.3113</b>	<b>2.5585</b>	<b>0.6107</b>	<b>0.2878</b>	<b>0.8985</b>			<b>5,455.1486</b>	<b>0.5454</b>	<b>0.0000</b>	<b>5,468.7842</b>

Resources Renovation Project Construction - 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	0.08	11.21	-1.77	0.00	23.21	31.79	24.22	4.48	32.33	14.58	0.00	0.00	0.00	0.00	0.00	0.00

**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	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.5663	1.7527	5.1951	0.0174	1.5815	0.0128	1.5943	0.4226	0.0119	0.4345			1,766.0626	0.0737		1,767.9039
Stationary	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>18.8426</b>	<b>13.1214</b>	<b>11.7437</b>	<b>0.0296</b>	<b>1.5815</b>	<b>0.3870</b>	<b>1.9685</b>	<b>0.4226</b>	<b>0.3861</b>	<b>0.8087</b>			<b>3,066.6473</b>	<b>0.2563</b>	<b>0.0000</b>	<b>3,073.0561</b>

Resources Renovation Project Construction - Sacramento County, Summer

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.5663	1.7527	5.1951	0.0174	1.5815	0.0128	1.5943	0.4226	0.0119	0.4345			1,766.0626	0.0737		1,767.9039
Stationary	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>18.8426</b>	<b>13.1214</b>	<b>11.7437</b>	<b>0.0296</b>	<b>1.5815</b>	<b>0.3870</b>	<b>1.9685</b>	<b>0.4226</b>	<b>0.3861</b>	<b>0.8087</b>			<b>3,066.6473</b>	<b>0.2563</b>	<b>0.0000</b>	<b>3,073.0561</b>

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

**3.0 Construction Detail**

**Construction Phase**

Resources Renovation Project Construction - Sacramento County, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	2/14/2022	5	31	
2	Site Preparation	Site Preparation	2/15/2022	2/17/2022	5	3	
3	Building Construction	Building Construction	2/18/2022	7/17/2024	5	629	
4	Paving	Paving	7/18/2024	8/8/2024	5	16	
5	Architectural Coating	Architectural Coating	8/9/2024	8/30/2024	5	16	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 985,500; Non-Residential Outdoor: 328,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Resources Renovation Project Construction - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	534.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	210.00	108.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Resources Renovation Project Construction - Sacramento County, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**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					3.8863	0.0000	3.8863	0.5884	0.0000	0.5884			0.0000			0.0000
Off-Road	1.0824	10.5981	9.3617	0.0178		0.5113	0.5113		0.4824	0.4824			1,706.7328	0.3926		1,716.5489
<b>Total</b>	<b>1.0824</b>	<b>10.5981</b>	<b>9.3617</b>	<b>0.0178</b>	<b>3.8863</b>	<b>0.5113</b>	<b>4.3975</b>	<b>0.5884</b>	<b>0.4824</b>	<b>1.0708</b>			<b>1,706.7328</b>	<b>0.3926</b>		<b>1,716.5489</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.2 Demolition - 2022**

**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	0.1136	4.0339	0.9690	0.0133	0.2995	0.0132	0.3127	0.0820	0.0126	0.0946			1,427.972 2	0.0799		1,429.969 0
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
Worker	0.0486	0.0240	0.3582	9.6000e-004	0.0989	6.5000e-004	0.0995	0.0262	6.0000e-004	0.0268			96.0689	2.3800e-003		96.1284
<b>Total</b>	<b>0.1623</b>	<b>4.0579</b>	<b>1.3271</b>	<b>0.0143</b>	<b>0.3984</b>	<b>0.0138</b>	<b>0.4122</b>	<b>0.1082</b>	<b>0.0132</b>	<b>0.1214</b>			<b>1,524.041 0</b>	<b>0.0823</b>		<b>1,526.097 4</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7488	0.0000	1.7488	0.2648	0.0000	0.2648			0.0000			0.0000
Off-Road	0.5735	5.3816	9.9607	0.0178		0.2452	0.2452		0.2268	0.2268			1,706.732 8	0.3926		1,716.548 9
<b>Total</b>	<b>0.5735</b>	<b>5.3816</b>	<b>9.9607</b>	<b>0.0178</b>	<b>1.7488</b>	<b>0.2452</b>	<b>1.9940</b>	<b>0.2648</b>	<b>0.2268</b>	<b>0.4916</b>			<b>1,706.732 8</b>	<b>0.3926</b>		<b>1,716.548 9</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.2 Demolition - 2022**

**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	0.1136	4.0339	0.9690	0.0133	0.2995	0.0132	0.3127	0.0820	0.0126	0.0946			1,427.972 2	0.0799		1,429.969 0
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
Worker	0.0486	0.0240	0.3582	9.6000e-004	0.0989	6.5000e-004	0.0995	0.0262	6.0000e-004	0.0268			96.0689	2.3800e-003		96.1284
<b>Total</b>	<b>0.1623</b>	<b>4.0579</b>	<b>1.3271</b>	<b>0.0143</b>	<b>0.3984</b>	<b>0.0138</b>	<b>0.4122</b>	<b>0.1082</b>	<b>0.0132</b>	<b>0.1214</b>			<b>1,524.041 0</b>	<b>0.0823</b>		<b>1,526.097 4</b>

**3.3 Site Preparation - 2022**

**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					0.1768	0.0000	0.1768	0.0191	0.0000	0.0191			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367			942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.1768</b>	<b>0.2573</b>	<b>0.4341</b>	<b>0.0191</b>	<b>0.2367</b>	<b>0.2558</b>			<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>



Resources Renovation Project Construction - Sacramento County, Summer

**3.3 Site Preparation - 2022**

**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
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
Worker	0.0187	9.2300e-003	0.1378	3.7000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103			36.9496	9.2000e-004		36.9725
<b>Total</b>	<b>0.0187</b>	<b>9.2300e-003</b>	<b>0.1378</b>	<b>3.7000e-004</b>	<b>0.0380</b>	<b>2.5000e-004</b>	<b>0.0383</b>	<b>0.0101</b>	<b>2.3000e-004</b>	<b>0.0103</b>			<b>36.9496</b>	<b>9.2000e-004</b>		<b>36.9725</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.5379	6.4346	3.9941	9.7300e-003		0.2293	0.2293		0.2111	0.2111			942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5379</b>	<b>6.4346</b>	<b>3.9941</b>	<b>9.7300e-003</b>	<b>0.0795</b>	<b>0.2293</b>	<b>0.3088</b>	<b>8.5900e-003</b>	<b>0.2111</b>	<b>0.2196</b>			<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.3 Site Preparation - 2022**

**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
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
Worker	0.0187	9.2300e-003	0.1378	3.7000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103			36.9496	9.2000e-004		36.9725
<b>Total</b>	<b>0.0187</b>	<b>9.2300e-003</b>	<b>0.1378</b>	<b>3.7000e-004</b>	<b>0.0380</b>	<b>2.5000e-004</b>	<b>0.0383</b>	<b>0.0101</b>	<b>2.3000e-004</b>	<b>0.0103</b>			<b>36.9496</b>	<b>9.2000e-004</b>		<b>36.9725</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422			1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>			<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2022**

**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
Vendor	0.3097	10.3130	2.5521	0.0264	0.6498	0.0261	0.6759	0.1870	0.0249	0.2119			2,799.3277	0.1499		2,803.0749
Worker	0.7856	0.3875	5.7855	0.0156	1.5975	0.0105	1.6080	0.4237	9.6800e-003	0.4334			1,551.8816	0.0385		1,552.8441
<b>Total</b>	<b>1.0953</b>	<b>10.7005</b>	<b>8.3376</b>	<b>0.0420</b>	<b>2.2473</b>	<b>0.0366</b>	<b>2.2838</b>	<b>0.6107</b>	<b>0.0346</b>	<b>0.6453</b>			<b>4,351.2093</b>	<b>0.1884</b>		<b>4,355.9190</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5271	5.0592	7.3981	0.0114		0.2747	0.2747		0.2532	0.2532			1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.5271</b>	<b>5.0592</b>	<b>7.3981</b>	<b>0.0114</b>		<b>0.2747</b>	<b>0.2747</b>		<b>0.2532</b>	<b>0.2532</b>			<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2022**

**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
Vendor	0.3097	10.3130	2.5521	0.0264	0.6498	0.0261	0.6759	0.1870	0.0249	0.2119			2,799.3277	0.1499		2,803.0749
Worker	0.7856	0.3875	5.7855	0.0156	1.5975	0.0105	1.6080	0.4237	9.6800e-003	0.4334			1,551.8816	0.0385		1,552.8441
<b>Total</b>	<b>1.0953</b>	<b>10.7005</b>	<b>8.3376</b>	<b>0.0420</b>	<b>2.2473</b>	<b>0.0366</b>	<b>2.2838</b>	<b>0.6107</b>	<b>0.0346</b>	<b>0.6453</b>			<b>4,351.2093</b>	<b>0.1884</b>		<b>4,355.9190</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946			1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>			<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2023**

**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
Vendor	0.2447	8.7479	2.2639	0.0259	0.6497	0.0123	0.6620	0.1870	0.0118	0.1987			2,747.5074	0.1346		2,750.8729
Worker	0.7343	0.3488	5.3253	0.0150	1.5975	0.0103	1.6077	0.4237	9.4400e-003	0.4332			1,493.5373	0.0345		1,494.4000
<b>Total</b>	<b>0.9790</b>	<b>9.0967</b>	<b>7.5892</b>	<b>0.0409</b>	<b>2.2472</b>	<b>0.0225</b>	<b>2.2697</b>	<b>0.6107</b>	<b>0.0212</b>	<b>0.6319</b>			<b>4,241.0446</b>	<b>0.1691</b>		<b>4,245.2730</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4873	4.6366	7.3614	0.0114		0.2361	0.2361		0.2177	0.2177			1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.4873</b>	<b>4.6366</b>	<b>7.3614</b>	<b>0.0114</b>		<b>0.2361</b>	<b>0.2361</b>		<b>0.2177</b>	<b>0.2177</b>			<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2023**

**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
Vendor	0.2447	8.7479	2.2639	0.0259	0.6497	0.0123	0.6620	0.1870	0.0118	0.1987			2,747.5074	0.1346		2,750.8729
Worker	0.7343	0.3488	5.3253	0.0150	1.5975	0.0103	1.6077	0.4237	9.4400e-003	0.4332			1,493.5373	0.0345		1,494.4000
<b>Total</b>	<b>0.9790</b>	<b>9.0967</b>	<b>7.5892</b>	<b>0.0409</b>	<b>2.2472</b>	<b>0.0225</b>	<b>2.2697</b>	<b>0.6107</b>	<b>0.0212</b>	<b>0.6319</b>			<b>4,241.0446</b>	<b>0.1691</b>		<b>4,245.2730</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598			1,104.9834	0.3574		1,113.9177
<b>Total</b>	<b>0.5950</b>	<b>5.9739</b>	<b>7.0675</b>	<b>0.0114</b>		<b>0.2824</b>	<b>0.2824</b>		<b>0.2598</b>	<b>0.2598</b>			<b>1,104.9834</b>	<b>0.3574</b>		<b>1,113.9177</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2024**

**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
Vendor	0.2332	8.5840	2.1161	0.0257	0.6497	0.0117	0.6613	0.1869	0.0112	0.1981			2,731.444 2	0.1330		2,734.768 5
Worker	0.6895	0.3154	4.9400	0.0144	1.5975	0.0100	1.6075	0.4237	9.2300e- 003	0.4330			1,435.402 5	0.0311		1,436.180 9
<b>Total</b>	<b>0.9227</b>	<b>8.8993</b>	<b>7.0561</b>	<b>0.0401</b>	<b>2.2471</b>	<b>0.0217</b>	<b>2.2688</b>	<b>0.6107</b>	<b>0.0204</b>	<b>0.6311</b>			<b>4,166.846 7</b>	<b>0.1641</b>		<b>4,170.949 3</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4599	4.3274	7.3439	0.0114		0.2078	0.2078		0.1916	0.1916			1,104.983 4	0.3574		1,113.9177
<b>Total</b>	<b>0.4599</b>	<b>4.3274</b>	<b>7.3439</b>	<b>0.0114</b>		<b>0.2078</b>	<b>0.2078</b>		<b>0.1916</b>	<b>0.1916</b>			<b>1,104.983 4</b>	<b>0.3574</b>		<b>1,113.917 7</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.4 Building Construction - 2024**

**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
Vendor	0.2332	8.5840	2.1161	0.0257	0.6497	0.0117	0.6613	0.1869	0.0112	0.1981			2,731.444 2	0.1330		2,734.768 5
Worker	0.6895	0.3154	4.9400	0.0144	1.5975	0.0100	1.6075	0.4237	9.2300e- 003	0.4330			1,435.402 5	0.0311		1,436.180 9
<b>Total</b>	<b>0.9227</b>	<b>8.8993</b>	<b>7.0561</b>	<b>0.0401</b>	<b>2.2471</b>	<b>0.0217</b>	<b>2.2688</b>	<b>0.6107</b>	<b>0.0204</b>	<b>0.6311</b>			<b>4,166.846 7</b>	<b>0.1641</b>		<b>4,170.949 3</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269			1,036.239 3	0.3019		1,043.785 8
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5904</b>	<b>5.2297</b>	<b>7.0314</b>	<b>0.0113</b>		<b>0.2429</b>	<b>0.2429</b>		<b>0.2269</b>	<b>0.2269</b>			<b>1,036.239 3</b>	<b>0.3019</b>		<b>1,043.785 8</b>



Resources Renovation Project Construction - Sacramento County, Summer

**3.5 Paving - 2024**

**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
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
Worker	0.0591	0.0270	0.4234	1.2300e-003	0.1369	8.6000e-004	0.1378	0.0363	7.9000e-004	0.0371			123.0345	2.6700e-003		123.1012
<b>Total</b>	<b>0.0591</b>	<b>0.0270</b>	<b>0.4234</b>	<b>1.2300e-003</b>	<b>0.1369</b>	<b>8.6000e-004</b>	<b>0.1378</b>	<b>0.0363</b>	<b>7.9000e-004</b>	<b>0.0371</b>			<b>123.0345</b>	<b>2.6700e-003</b>		<b>123.1012</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4716	4.3067	6.5996	0.0113		0.2037	0.2037		0.1892	0.1892			1,036.2393	0.3019		1,043.7858
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4716</b>	<b>4.3067</b>	<b>6.5996</b>	<b>0.0113</b>		<b>0.2037</b>	<b>0.2037</b>		<b>0.1892</b>	<b>0.1892</b>			<b>1,036.2393</b>	<b>0.3019</b>		<b>1,043.7858</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.5 Paving - 2024**

**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
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
Worker	0.0591	0.0270	0.4234	1.2300e-003	0.1369	8.6000e-004	0.1378	0.0363	7.9000e-004	0.0371			123.0345	2.6700e-003		123.1012
<b>Total</b>	<b>0.0591</b>	<b>0.0270</b>	<b>0.4234</b>	<b>1.2300e-003</b>	<b>0.1369</b>	<b>8.6000e-004</b>	<b>0.1378</b>	<b>0.0363</b>	<b>7.9000e-004</b>	<b>0.0371</b>			<b>123.0345</b>	<b>2.6700e-003</b>		<b>123.1012</b>

**3.6 Architectural Coating - 2024**

**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	380.6494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443
<b>Total</b>	<b>380.8301</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>			<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.6 Architectural Coating - 2024**

**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
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
Worker	0.1379	0.0631	0.9880	2.8800e-003	0.3195	2.0000e-003	0.3215	0.0848	1.8500e-003	0.0866			287.0805	6.2300e-003		287.2362
<b>Total</b>	<b>0.1379</b>	<b>0.0631</b>	<b>0.9880</b>	<b>2.8800e-003</b>	<b>0.3195</b>	<b>2.0000e-003</b>	<b>0.3215</b>	<b>0.0848</b>	<b>1.8500e-003</b>	<b>0.0866</b>			<b>287.0805</b>	<b>6.2300e-003</b>		<b>287.2362</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	380.6494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443
<b>Total</b>	<b>380.8301</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>			<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Resources Renovation Project Construction - Sacramento County, Summer

**3.6 Architectural Coating - 2024**

**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
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
Worker	0.1379	0.0631	0.9880	2.8800e-003	0.3195	2.0000e-003	0.3215	0.0848	1.8500e-003	0.0866			287.0805	6.2300e-003		287.2362
<b>Total</b>	<b>0.1379</b>	<b>0.0631</b>	<b>0.9880</b>	<b>2.8800e-003</b>	<b>0.3195</b>	<b>2.0000e-003</b>	<b>0.3215</b>	<b>0.0848</b>	<b>1.8500e-003</b>	<b>0.0866</b>			<b>287.0805</b>	<b>6.2300e-003</b>		<b>287.2362</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Resources Renovation Project Construction - 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	0.5663	1.7527	5.1951	0.0174	1.5815	0.0128	1.5943	0.4226	0.0119	0.4345			1,766.0626	0.0737		1,767.9039
Unmitigated	0.5663	1.7527	5.1951	0.0174	1.5815	0.0128	1.5943	0.4226	0.0119	0.4345			1,766.0626	0.0737		1,767.9039

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	361.35	98.55	0.00	562,092	562,092
Total	361.35	98.55	0.00	562,092	562,092

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 Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

Resources Renovation Project Construction - Sacramento County, Summer

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

Resources Renovation Project Construction - Sacramento County, Summer

**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					
General Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**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					
General Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Resources Renovation Project Construction - 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	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Unmitigated	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531

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	1.6686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.0598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1600e-003	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
<b>Total</b>	<b>15.7346</b>	<b>6.1000e-004</b>	<b>0.0669</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>			<b>0.1438</b>	<b>3.7000e-004</b>		<b>0.1531</b>



Resources Renovation Project Construction - Sacramento County, Summer

**6.2 Area by SubCategory**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.0598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1600e-003	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
<b>Total</b>	<b>15.7346</b>	<b>6.1000e-004</b>	<b>0.0669</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>			<b>0.1438</b>	<b>3.7000e-004</b>		<b>0.1531</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

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Fire Pumps and Emergency Generators

Resources Renovation Project Construction - Sacramento County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1.36	500	1139	0.73	Diesel

**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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**10.1 Stationary Sources**

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>2.5417</b>	<b>11.3680</b>	<b>6.4818</b>	<b>0.0122</b>		<b>0.3740</b>	<b>0.3740</b>		<b>0.3740</b>	<b>0.3740</b>			<b>1,300.4410</b>	<b>0.1823</b>		<b>1,304.9990</b>

**11.0 Vegetation**

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Resources Renovation Project Construction - Sacramento County, Winter

**Resources Renovation Project Construction  
Sacramento County, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	657.00	1000sqft	0.91	657,000.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	3.5	<b>Precipitation Freq (Days)</b>	58
<b>Climate Zone</b>	6			<b>Operational Year</b>	2025
<b>Utility Company</b>	Sacramento Municipal Utility District				
<b>CO2 Intensity (lb/MW hr)</b>	590.31	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

Resources Renovation Project Construction - Sacramento County, Winter

Project Characteristics - Climate Zone 6 based on 95814 Zipcode. Project construction to commence January 2022.

Land Use - Assumes ground disturbance of 0.91 acres of general office building (657,00 gsf)

Construction Phase - Assumes a construction start date of January 2022 and ends in September 2024

Off-road Equipment - Addition of 2 cranes to account for building height

Off-road Equipment - Addition of crane for demolition

Trips and VMT -

Demolition - 20,000 cubic yards (5,400 tons) of debris to be demolished

Grading - 0.91 acres of disturbed site.

Vehicle Trips - Assuming increase in 100 employees per year resulting in 554,000 annual VMT

Energy Use - Exceeds 2019 Title 24 by 15 percent; no natural gas use on- or off-site

Solid Waste - 59 tons per year based on 100 new employees and CalRecycle Data

Construction Off-road Equipment Mitigation - Assumes 30 percent Tier 4 Equipment; use of SMAQMD's BMPs for construction emissions

Energy Mitigation - Use of energy star equipment where applicable

Stationary Sources - Emergency Generators and Fire Pumps - Assumes 1 1,139 HP generator in use 500 hours per year (1.36 hours per day on average)

Architectural Coating -

Off-road Equipment -

Water And Wastewater - placeholders for now.

Off-road Equipment -

Off-road Equipment -

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

Resources Renovation Project Construction - Sacramento County, Winter

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	31.00
tblConstructionPhase	NumDays	1.00	3.00
tblConstructionPhase	NumDays	100.00	629.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	NumDays	5.00	16.00
tblConstructionPhase	PhaseEndDate	1/14/2022	2/14/2022
tblConstructionPhase	PhaseEndDate	1/17/2022	2/17/2022
tblConstructionPhase	PhaseEndDate	6/6/2022	7/17/2024
tblConstructionPhase	PhaseEndDate	6/13/2022	8/8/2024
tblConstructionPhase	PhaseEndDate	6/20/2022	8/30/2024
tblConstructionPhase	PhaseStartDate	1/15/2022	2/15/2022
tblConstructionPhase	PhaseStartDate	1/18/2022	2/18/2022
tblConstructionPhase	PhaseStartDate	6/7/2022	7/18/2024
tblConstructionPhase	PhaseStartDate	6/14/2022	8/9/2024
tblEnergyUse	NT24NG	0.68	0.00
tblEnergyUse	T24E	4.98	2.96
tblEnergyUse	T24NG	12.42	0.00
tblGrading	AcresOfGrading	1.50	0.50
tblLandUse	LotAcreage	15.08	0.91
tblOffRoadEquipment	OffRoadEquipmentType		Cranes
tblSolidWaste	SolidWasteGenerationRate	611.01	59.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,139.00

## Resources Renovation Project Construction - Sacramento County, Winter

tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	1.36
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	500.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.15
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.55
tblWater	IndoorWaterUseRate	116,771,072.43	20,000.00
tblWater	OutdoorWaterUseRate	71,569,366.97	20,000.00

## 2.0 Emissions Summary

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Resources Renovation Project Construction - Sacramento County, Winter

**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					
2022	1.7393	17.9684	15.0291	0.0508	4.2847	0.5256	4.8103	0.6966	0.4961	1.1927			5,193.844 3	0.5532	0.0000	5,207.674 9
2023	1.5715	15.6849	14.2101	0.0498	2.2472	0.3439	2.5911	0.6107	0.3168	0.9275			5,093.055 5	0.5329	0.0000	5,106.377 3
2024	380.9581	15.0299	13.6701	0.0491	2.2471	0.3050	2.5522	0.6107	0.2811	0.8918			5,027.070 2	0.5282	0.0000	5,040.275 7
<b>Maximum</b>	<b>380.9581</b>	<b>17.9684</b>	<b>15.0291</b>	<b>0.0508</b>	<b>4.2847</b>	<b>0.5256</b>	<b>4.8103</b>	<b>0.6966</b>	<b>0.4961</b>	<b>1.1927</b>			<b>5,193.844 3</b>	<b>0.5532</b>	<b>0.0000</b>	<b>5,207.674 9</b>

**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					
2022	1.5801	16.0018	15.2746	0.0508	2.2473	0.3130	2.5602	0.6107	0.2894	0.9002			5,193.844 3	0.5532	0.0000	5,207.674 9
2023	1.4266	13.9029	14.4744	0.0498	2.2472	0.2597	2.5069	0.6107	0.2399	0.8506			5,093.055 5	0.5329	0.0000	5,106.377 3
2024	380.9581	13.3834	13.9465	0.0491	2.2471	0.2304	2.4775	0.6107	0.2129	0.8236			5,027.070 2	0.5282	0.0000	5,040.275 7
<b>Maximum</b>	<b>380.9581</b>	<b>16.0018</b>	<b>15.2746</b>	<b>0.0508</b>	<b>2.2473</b>	<b>0.3130</b>	<b>2.5602</b>	<b>0.6107</b>	<b>0.2894</b>	<b>0.9002</b>			<b>5,193.844 3</b>	<b>0.5532</b>	<b>0.0000</b>	<b>5,207.674 9</b>

Resources Renovation Project Construction - 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	0.08	11.08	-1.83	0.00	23.21	31.62	24.20	4.48	32.16	14.53	0.00	0.00	0.00	0.00	0.00	0.00

**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	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.4098	1.8479	4.8549	0.0157	1.5815	0.0129	1.5944	0.4226	0.0121	0.4346			1,598.8032	0.0741		1,600.6545
Stationary	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>18.6861</b>	<b>13.2165</b>	<b>11.4035</b>	<b>0.0280</b>	<b>1.5815</b>	<b>0.3871</b>	<b>1.9686</b>	<b>0.4226</b>	<b>0.3862</b>	<b>0.8088</b>			<b>2,899.3879</b>	<b>0.2567</b>	<b>0.0000</b>	<b>2,905.8066</b>



Resources Renovation Project Construction - Sacramento County, Winter

**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Mobile	0.4098	1.8479	4.8549	0.0157	1.5815	0.0129	1.5944	0.4226	0.0121	0.4346			1,598.8032	0.0741		1,600.6545
Stationary	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>18.6861</b>	<b>13.2165</b>	<b>11.4035</b>	<b>0.0280</b>	<b>1.5815</b>	<b>0.3871</b>	<b>1.9686</b>	<b>0.4226</b>	<b>0.3862</b>	<b>0.8088</b>			<b>2,899.3879</b>	<b>0.2567</b>	<b>0.0000</b>	<b>2,905.8066</b>

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

**3.0 Construction Detail**

**Construction Phase**

Resources Renovation Project Construction - Sacramento County, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	2/14/2022	5	31	
2	Site Preparation	Site Preparation	2/15/2022	2/17/2022	5	3	
3	Building Construction	Building Construction	2/18/2022	7/17/2024	5	629	
4	Paving	Paving	7/18/2024	8/8/2024	5	16	
5	Architectural Coating	Architectural Coating	8/9/2024	8/30/2024	5	16	

**Acres of Grading (Site Preparation Phase): 0.5**

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

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 985,500; Non-Residential Outdoor: 328,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

Resources Renovation Project Construction - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Cranes	1	8.00	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

**Trips and VMT**

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	534.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	210.00	108.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	42.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Resources Renovation Project Construction - Sacramento County, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2022**

**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					3.8863	0.0000	3.8863	0.5884	0.0000	0.5884			0.0000			0.0000
Off-Road	1.0824	10.5981	9.3617	0.0178		0.5113	0.5113		0.4824	0.4824			1,706.7328	0.3926		1,716.5489
<b>Total</b>	<b>1.0824</b>	<b>10.5981</b>	<b>9.3617</b>	<b>0.0178</b>	<b>3.8863</b>	<b>0.5113</b>	<b>4.3975</b>	<b>0.5884</b>	<b>0.4824</b>	<b>1.0708</b>			<b>1,706.7328</b>	<b>0.3926</b>		<b>1,716.5489</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.2 Demolition - 2022**

**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	0.1171	4.1802	1.0347	0.0131	0.2995	0.0137	0.3132	0.0820	0.0131	0.0950			1,405.6503	0.0835		1,407.7375
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
Worker	0.0449	0.0296	0.3042	8.5000e-004	0.0989	6.5000e-004	0.0995	0.0262	6.0000e-004	0.0268			84.3780	2.0900e-003		84.4303
<b>Total</b>	<b>0.1620</b>	<b>4.2098</b>	<b>1.3388</b>	<b>0.0140</b>	<b>0.3984</b>	<b>0.0143</b>	<b>0.4127</b>	<b>0.1082</b>	<b>0.0137</b>	<b>0.1219</b>			<b>1,490.0283</b>	<b>0.0856</b>		<b>1,492.1677</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.7488	0.0000	1.7488	0.2648	0.0000	0.2648			0.0000			0.0000
Off-Road	0.5735	5.3816	9.9607	0.0178		0.2452	0.2452		0.2268	0.2268			1,706.7328	0.3926		1,716.5489
<b>Total</b>	<b>0.5735</b>	<b>5.3816</b>	<b>9.9607</b>	<b>0.0178</b>	<b>1.7488</b>	<b>0.2452</b>	<b>1.9940</b>	<b>0.2648</b>	<b>0.2268</b>	<b>0.4916</b>			<b>1,706.7328</b>	<b>0.3926</b>		<b>1,716.5489</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.2 Demolition - 2022**

**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	0.1171	4.1802	1.0347	0.0131	0.2995	0.0137	0.3132	0.0820	0.0131	0.0950			1,405.6503	0.0835		1,407.7375
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
Worker	0.0449	0.0296	0.3042	8.5000e-004	0.0989	6.5000e-004	0.0995	0.0262	6.0000e-004	0.0268			84.3780	2.0900e-003		84.4303
<b>Total</b>	<b>0.1620</b>	<b>4.2098</b>	<b>1.3388</b>	<b>0.0140</b>	<b>0.3984</b>	<b>0.0143</b>	<b>0.4127</b>	<b>0.1082</b>	<b>0.0137</b>	<b>0.1219</b>			<b>1,490.0283</b>	<b>0.0856</b>		<b>1,492.1677</b>

**3.3 Site Preparation - 2022**

**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					0.1768	0.0000	0.1768	0.0191	0.0000	0.0191			0.0000			0.0000
Off-Road	0.5797	6.9332	3.9597	9.7300e-003		0.2573	0.2573		0.2367	0.2367			942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5797</b>	<b>6.9332</b>	<b>3.9597</b>	<b>9.7300e-003</b>	<b>0.1768</b>	<b>0.2573</b>	<b>0.4341</b>	<b>0.0191</b>	<b>0.2367</b>	<b>0.2558</b>			<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.3 Site Preparation - 2022**

**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
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
Worker	0.0173	0.0114	0.1170	3.3000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103			32.4531	8.0000e-004		32.4732
<b>Total</b>	<b>0.0173</b>	<b>0.0114</b>	<b>0.1170</b>	<b>3.3000e-004</b>	<b>0.0380</b>	<b>2.5000e-004</b>	<b>0.0383</b>	<b>0.0101</b>	<b>2.3000e-004</b>	<b>0.0103</b>			<b>32.4531</b>	<b>8.0000e-004</b>		<b>32.4732</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0795	0.0000	0.0795	8.5900e-003	0.0000	8.5900e-003			0.0000			0.0000
Off-Road	0.5379	6.4346	3.9941	9.7300e-003		0.2293	0.2293		0.2111	0.2111			942.5179	0.3048		950.1386
<b>Total</b>	<b>0.5379</b>	<b>6.4346</b>	<b>3.9941</b>	<b>9.7300e-003</b>	<b>0.0795</b>	<b>0.2293</b>	<b>0.3088</b>	<b>8.5900e-003</b>	<b>0.2111</b>	<b>0.2196</b>			<b>942.5179</b>	<b>0.3048</b>		<b>950.1386</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.3 Site Preparation - 2022**

**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
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
Worker	0.0173	0.0114	0.1170	3.3000e-004	0.0380	2.5000e-004	0.0383	0.0101	2.3000e-004	0.0103			32.4531	8.0000e-004		32.4732
<b>Total</b>	<b>0.0173</b>	<b>0.0114</b>	<b>0.1170</b>	<b>3.3000e-004</b>	<b>0.0380</b>	<b>2.5000e-004</b>	<b>0.0383</b>	<b>0.0101</b>	<b>2.3000e-004</b>	<b>0.0103</b>			<b>32.4531</b>	<b>8.0000e-004</b>		<b>32.4732</b>

**3.4 Building Construction - 2022**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6863	7.0258	7.1527	0.0114		0.3719	0.3719		0.3422	0.3422			1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.6863</b>	<b>7.0258</b>	<b>7.1527</b>	<b>0.0114</b>		<b>0.3719</b>	<b>0.3719</b>		<b>0.3422</b>	<b>0.3422</b>			<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>



Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2022**

**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
Vendor	0.3281	10.4642	2.9627	0.0257	0.6498	0.0278	0.6776	0.1870	0.0266	0.2135			2,726.8757	0.1624		2,730.9357
Worker	0.7248	0.4784	4.9137	0.0137	1.5975	0.0105	1.6080	0.4237	9.6800e-003	0.4334			1,363.0293	0.0338		1,363.8740
<b>Total</b>	<b>1.0530</b>	<b>10.9426</b>	<b>7.8764</b>	<b>0.0394</b>	<b>2.2473</b>	<b>0.0383</b>	<b>2.2855</b>	<b>0.6107</b>	<b>0.0362</b>	<b>0.6470</b>			<b>4,089.9050</b>	<b>0.1962</b>		<b>4,094.8096</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5271	5.0592	7.3981	0.0114		0.2747	0.2747		0.2532	0.2532			1,103.9393	0.3570		1,112.8652
<b>Total</b>	<b>0.5271</b>	<b>5.0592</b>	<b>7.3981</b>	<b>0.0114</b>		<b>0.2747</b>	<b>0.2747</b>		<b>0.2532</b>	<b>0.2532</b>			<b>1,103.9393</b>	<b>0.3570</b>		<b>1,112.8652</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2022**

**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
Vendor	0.3281	10.4642	2.9627	0.0257	0.6498	0.0278	0.6776	0.1870	0.0266	0.2135			2,726.8757	0.1624		2,730.9357
Worker	0.7248	0.4784	4.9137	0.0137	1.5975	0.0105	1.6080	0.4237	9.6800e-003	0.4334			1,363.0293	0.0338		1,363.8740
<b>Total</b>	<b>1.0530</b>	<b>10.9426</b>	<b>7.8764</b>	<b>0.0394</b>	<b>2.2473</b>	<b>0.0383</b>	<b>2.2855</b>	<b>0.6107</b>	<b>0.0362</b>	<b>0.6470</b>			<b>4,089.9050</b>	<b>0.1962</b>		<b>4,094.8096</b>

**3.4 Building Construction - 2023**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6322	6.4186	7.0970	0.0114		0.3203	0.3203		0.2946	0.2946			1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.6322</b>	<b>6.4186</b>	<b>7.0970</b>	<b>0.0114</b>		<b>0.3203</b>	<b>0.3203</b>		<b>0.2946</b>	<b>0.2946</b>			<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2023**

**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
Vendor	0.2601	8.8359	2.6110	0.0252	0.6497	0.0134	0.6631	0.1870	0.0128	0.1997			2,676.5827	0.1454		2,680.2179
Worker	0.6792	0.4303	4.5021	0.0132	1.5975	0.0103	1.6077	0.4237	9.4400e-003	0.4332			1,311.8639	0.0302		1,312.6193
<b>Total</b>	<b>0.9393</b>	<b>9.2662</b>	<b>7.1131</b>	<b>0.0384</b>	<b>2.2472</b>	<b>0.0236</b>	<b>2.2708</b>	<b>0.6107</b>	<b>0.0222</b>	<b>0.6329</b>			<b>3,988.4466</b>	<b>0.1756</b>		<b>3,992.8371</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4873	4.6366	7.3614	0.0114		0.2361	0.2361		0.2177	0.2177			1,104.6089	0.3573		1,113.5402
<b>Total</b>	<b>0.4873</b>	<b>4.6366</b>	<b>7.3614</b>	<b>0.0114</b>		<b>0.2361</b>	<b>0.2361</b>		<b>0.2177</b>	<b>0.2177</b>			<b>1,104.6089</b>	<b>0.3573</b>		<b>1,113.5402</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2023**

**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
Vendor	0.2601	8.8359	2.6110	0.0252	0.6497	0.0134	0.6631	0.1870	0.0128	0.1997			2,676.5827	0.1454		2,680.2179
Worker	0.6792	0.4303	4.5021	0.0132	1.5975	0.0103	1.6077	0.4237	9.4400e-003	0.4332			1,311.8639	0.0302		1,312.6193
<b>Total</b>	<b>0.9393</b>	<b>9.2662</b>	<b>7.1131</b>	<b>0.0384</b>	<b>2.2472</b>	<b>0.0236</b>	<b>2.2708</b>	<b>0.6107</b>	<b>0.0222</b>	<b>0.6329</b>			<b>3,988.4466</b>	<b>0.1756</b>		<b>3,992.8371</b>

**3.4 Building Construction - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5950	5.9739	7.0675	0.0114		0.2824	0.2824		0.2598	0.2598			1,104.9834	0.3574		1,113.9177
<b>Total</b>	<b>0.5950</b>	<b>5.9739</b>	<b>7.0675</b>	<b>0.0114</b>		<b>0.2824</b>	<b>0.2824</b>		<b>0.2598</b>	<b>0.2598</b>			<b>1,104.9834</b>	<b>0.3574</b>		<b>1,113.9177</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2024**

**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
Vendor	0.2477	8.6670	2.4401	0.0251	0.6497	0.0127	0.6623	0.1869	0.0121	0.1990			2,661.1989	0.1436		2,664.7899
Worker	0.6395	0.3889	4.1625	0.0127	1.5975	0.0100	1.6075	0.4237	9.2300e-003	0.4330			1,260.8880	0.0272		1,261.5680
<b>Total</b>	<b>0.8872</b>	<b>9.0559</b>	<b>6.6025</b>	<b>0.0377</b>	<b>2.2471</b>	<b>0.0227</b>	<b>2.2698</b>	<b>0.6107</b>	<b>0.0213</b>	<b>0.6320</b>			<b>3,922.0869</b>	<b>0.1708</b>		<b>3,926.3579</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4599	4.3274	7.3439	0.0114		0.2078	0.2078		0.1916	0.1916			1,104.9834	0.3574		1,113.9177
<b>Total</b>	<b>0.4599</b>	<b>4.3274</b>	<b>7.3439</b>	<b>0.0114</b>		<b>0.2078</b>	<b>0.2078</b>		<b>0.1916</b>	<b>0.1916</b>			<b>1,104.9834</b>	<b>0.3574</b>		<b>1,113.9177</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.4 Building Construction - 2024**

**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
Vendor	0.2477	8.6670	2.4401	0.0251	0.6497	0.0127	0.6623	0.1869	0.0121	0.1990			2,661.1989	0.1436		2,664.7899
Worker	0.6395	0.3889	4.1625	0.0127	1.5975	0.0100	1.6075	0.4237	9.2300e-003	0.4330			1,260.8880	0.0272		1,261.5680
<b>Total</b>	<b>0.8872</b>	<b>9.0559</b>	<b>6.6025</b>	<b>0.0377</b>	<b>2.2471</b>	<b>0.0227</b>	<b>2.2698</b>	<b>0.6107</b>	<b>0.0213</b>	<b>0.6320</b>			<b>3,922.0869</b>	<b>0.1708</b>		<b>3,926.3579</b>

**3.5 Paving - 2024**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5904	5.2297	7.0314	0.0113		0.2429	0.2429		0.2269	0.2269			1,036.2393	0.3019		1,043.7858
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.5904</b>	<b>5.2297</b>	<b>7.0314</b>	<b>0.0113</b>		<b>0.2429</b>	<b>0.2429</b>		<b>0.2269</b>	<b>0.2269</b>			<b>1,036.2393</b>	<b>0.3019</b>		<b>1,043.7858</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.5 Paving - 2024**

**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
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
Worker	0.0548	0.0333	0.3568	1.0800e-003	0.1369	8.6000e-004	0.1378	0.0363	7.9000e-004	0.0371			108.0761	2.3300e-003		108.1344
<b>Total</b>	<b>0.0548</b>	<b>0.0333</b>	<b>0.3568</b>	<b>1.0800e-003</b>	<b>0.1369</b>	<b>8.6000e-004</b>	<b>0.1378</b>	<b>0.0363</b>	<b>7.9000e-004</b>	<b>0.0371</b>			<b>108.0761</b>	<b>2.3300e-003</b>		<b>108.1344</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.4716	4.3067	6.5996	0.0113		0.2037	0.2037		0.1892	0.1892			1,036.2393	0.3019		1,043.7858
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>0.4716</b>	<b>4.3067</b>	<b>6.5996</b>	<b>0.0113</b>		<b>0.2037</b>	<b>0.2037</b>		<b>0.1892</b>	<b>0.1892</b>			<b>1,036.2393</b>	<b>0.3019</b>		<b>1,043.7858</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.5 Paving - 2024**

**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
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
Worker	0.0548	0.0333	0.3568	1.0800e-003	0.1369	8.6000e-004	0.1378	0.0363	7.9000e-004	0.0371			108.0761	2.3300e-003		108.1344
<b>Total</b>	<b>0.0548</b>	<b>0.0333</b>	<b>0.3568</b>	<b>1.0800e-003</b>	<b>0.1369</b>	<b>8.6000e-004</b>	<b>0.1378</b>	<b>0.0363</b>	<b>7.9000e-004</b>	<b>0.0371</b>			<b>108.0761</b>	<b>2.3300e-003</b>		<b>108.1344</b>

**3.6 Architectural Coating - 2024**

**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	380.6494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443
<b>Total</b>	<b>380.8301</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>			<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>



Resources Renovation Project Construction - Sacramento County, Winter

**3.6 Architectural Coating - 2024**

**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
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
Worker	0.1279	0.0778	0.8325	2.5300e-003	0.3195	2.0000e-003	0.3215	0.0848	1.8500e-003	0.0866			252.1776	5.4400e-003		252.3136
<b>Total</b>	<b>0.1279</b>	<b>0.0778</b>	<b>0.8325</b>	<b>2.5300e-003</b>	<b>0.3195</b>	<b>2.0000e-003</b>	<b>0.3215</b>	<b>0.0848</b>	<b>1.8500e-003</b>	<b>0.0866</b>			<b>252.1776</b>	<b>5.4400e-003</b>		<b>252.3136</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	380.6494					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609			281.4481	0.0159		281.8443
<b>Total</b>	<b>380.8301</b>	<b>1.2188</b>	<b>1.8101</b>	<b>2.9700e-003</b>		<b>0.0609</b>	<b>0.0609</b>		<b>0.0609</b>	<b>0.0609</b>			<b>281.4481</b>	<b>0.0159</b>		<b>281.8443</b>

Resources Renovation Project Construction - Sacramento County, Winter

**3.6 Architectural Coating - 2024**

**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
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
Worker	0.1279	0.0778	0.8325	2.5300e-003	0.3195	2.0000e-003	0.3215	0.0848	1.8500e-003	0.0866			252.1776	5.4400e-003		252.3136
<b>Total</b>	<b>0.1279</b>	<b>0.0778</b>	<b>0.8325</b>	<b>2.5300e-003</b>	<b>0.3195</b>	<b>2.0000e-003</b>	<b>0.3215</b>	<b>0.0848</b>	<b>1.8500e-003</b>	<b>0.0866</b>			<b>252.1776</b>	<b>5.4400e-003</b>		<b>252.3136</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Resources Renovation Project Construction - 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	0.4098	1.8479	4.8549	0.0157	1.5815	0.0129	1.5944	0.4226	0.0121	0.4346			1,598.803 2	0.0741		1,600.654 5
Unmitigated	0.4098	1.8479	4.8549	0.0157	1.5815	0.0129	1.5944	0.4226	0.0121	0.4346			1,598.803 2	0.0741		1,600.654 5

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	361.35	98.55	0.00	562,092	562,092
Total	361.35	98.55	0.00	562,092	562,092

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 Office Building	10.00	5.00	6.50	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.568817	0.036545	0.209097	0.111572	0.015710	0.004830	0.018344	0.024276	0.001951	0.001803	0.005698	0.000617	0.000741

5.0 Energy Detail

Historical Energy Use: N

Resources Renovation Project Construction - Sacramento County, Winter

**5.1 Mitigation Measures Energy**

Install High Efficiency Lighting

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	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	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000

Resources Renovation Project Construction - Sacramento County, Winter

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
General Office Building	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
<b>Total</b>		<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>		<b>0.0000</b>	<b>0.0000</b>			<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0000</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Resources Renovation Project Construction - 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	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
Unmitigated	15.7346	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531

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	1.6686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.0598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1600e-003	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
<b>Total</b>	<b>15.7346</b>	<b>6.1000e-004</b>	<b>0.0669</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>			<b>0.1438</b>	<b>3.7000e-004</b>		<b>0.1531</b>

Resources Renovation Project Construction - Sacramento County, Winter

**6.2 Area by SubCategory**

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	1.6686					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	14.0598					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	6.1600e-003	6.1000e-004	0.0669	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004			0.1438	3.7000e-004		0.1531
<b>Total</b>	<b>15.7346</b>	<b>6.1000e-004</b>	<b>0.0669</b>	<b>1.0000e-005</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>		<b>2.4000e-004</b>	<b>2.4000e-004</b>			<b>0.1438</b>	<b>3.7000e-004</b>		<b>0.1531</b>

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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**10.0 Stationary Equipment**

**Fire Pumps and Emergency Generators**

Resources Renovation Project Construction - Sacramento County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	1.36	500	1139	0.73	Diesel

**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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**10.1 Stationary Sources**

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	2.5417	11.3680	6.4818	0.0122		0.3740	0.3740		0.3740	0.3740			1,300.4410	0.1823		1,304.9990
<b>Total</b>	<b>2.5417</b>	<b>11.3680</b>	<b>6.4818</b>	<b>0.0122</b>		<b>0.3740</b>	<b>0.3740</b>		<b>0.3740</b>	<b>0.3740</b>			<b>1,300.4410</b>	<b>0.1823</b>		<b>1,304.9990</b>

**11.0 Vegetation**

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**CalEEMod Inputs (Construction Run)**

**Name:** Resources Renovation  
**Project Number:** 19010106.01  
**Project Location:** 1416 9th Street  
**County/Air Basin:** Sacramento  
**Climate Zone:** 6  
**Land Use Setting:** Urban  
**Operational Year:** 2025  
**Utility Company:** Sacramento Municipal Utility District  
**Air Basin:** Sacramento Valley Air Basin  
**Air District:** SMAQMD

Project Site Acreage	0.91
Disturbed Site Acreage	0.91

Land Use	SQFT	Acres
Office Building	657,000	0.91
<b>Total</b>	<b>657,000</b>	<b>0.91</b>

**CalEEMod Land Use Inputs -- Construction**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Office Building	Commercial	Government Office Building	657.0	1000 G Sq. Feet	0.91	657,000
					<b>0.91</b>	

**Demolition Haul Data\***

Component	Amount to be Demolished (Ton)*	Haul Truck Capacity (Ton)	Haul Distance (miles)	Total Trip Ends	Duration (days)	Trip Ends/ day
Building Demo*	20,000	#REF!	20	#REF!	31	#REF!
<b>Total</b>	<b>20,000</b>			<b>#REF!</b>		

\*Based on cubic yards provided by the applicant.

**Building Construction Haul Data\***

Component	Amount to be Hauled (CY)*	Haul Truck Capacity (Ton)	Haul Distance (miles)	Total Trip Ends	Duration (days)	Trip Ends/ day
Building Material*	20,000	#REF!	20	#REF!	629	#REF!
<b>Total</b>	<b>20,000</b>			<b>#REF!</b>		

\*Based on cubic yards provided by the applicant.

**Architectural Coating**

Interior Paint VOC content:	100
Exterior Paint VOC content:	100

**Non-Residential Architectural Coating**

Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Structure Type	Land Use Square Feet	CalEEMod Application Factor	Total		
			Paintable Surface Area <sup>1</sup>	Paintable Interior Area <sup>2</sup>	Paintable Exterior Area <sup>2</sup>
<b>Non-Residential</b>					
Office Building	657,000	2.0	1,314,000	985,500	328,500

<sup>1</sup> CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively.

<sup>2</sup> The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

### CalEEMod Construction Phase Inputs\*

5-Day Work Week/8 hours per day

#### Adjusted Phasing for 3-year phasing

	<u>Default</u>	<u>Adjusted</u>
Demolition	10	31
Site Preparation	1	3
Building Construction	200	629
Paving	5	16
Arch Coating	5	16
Construction Start Date	1/1/2022	
Construction End Date	9/1/2024	
Total Work Days	695	

#### CalEEMod Construction Schedule Inputs

<u>Phase Name</u>	<u>Phase Type</u>	<u>Start Date</u>	<u>End Date</u>	<u>CalEEMod Total Days</u>
Demolition	Demolition	6/1/2021	7/22/2021	31
Site Preparation	Site Preparation	7/23/2021	7/28/2021	3
Building Construction	Building Construction	7/29/2021	7/8/2024	629
Paving	Paving	7/9/2024	7/10/2024	16
Architectural Coating	Architectural Coating	8/3/2024	8/29/2024	16
				<u>695</u>

\*Based on overall construction schedule of 2.5 years provided by the Applicant, CalEEMod default phase lengths were normalized to meet this period

**CalEEMod Construction Off-Road Equipment Inputs**

<b>Applicant Equipment Type</b>	<b># of Equipment</b>	<b>HP</b>	<b>Tier Rating</b>	<b>Hrs/Day</b>	<b>Trips</b>
<b>Demolition</b>					
Concrete/Industrial Saws	1	81		8	
Rubber Tired Dozers	1	247		8	
Tractors/Loaders/Backhoes	3	97		8	
Worker Trips					190
Vendors Trips					0
Hauling Trips					#REF!
<b>Building Modernization</b>					
Cranes	1	231		6	
Forklifts	1	89		6	
Generator Sets	1	84		8	
Tractors/Loaders/Backhoes	1	97		6	
Welders	3	46		8	
Worker Trips					190
Vendor Trips <sup>1</sup>					48
Hauling Trips					#REF!
<b>Architectural Coating</b>					
Air Compressors	1	78		6	
Worker Trips					190
Vendor Trips					0
Hauling Trips					0

**CalEEMod Inputs (Operation Run)**

**Name:** Resources Renovation  
**Project Number:** 19010106.01  
**Project Location:** 1416 9th Street  
**County/Air Basin:** Sacramento  
**Climate Zone:** 6  
**Land Use Setting:** Urban  
**Operational Year:** 2025  
**Utility Company:** Sacramento Municipal Utility District  
**Air Basin:** Sacramento Valley Air Basin  
**Air District:** SMAQMD

Project Site Acreage <sup>1</sup>	0.91
Disturbed Site Acreage <sup>1</sup>	0.91

Existing Employees	2,400
Projected Employees	2,500
Project Employees	100

Land Use	SQFT	Acres
Office Building	657,000	0.91
	<b>657,000</b>	<b>0.91</b>

**CalEEMod Land Use Inputs -- Construction**

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Office Building	Commercial	Government Office Building	657	1000 G Sq. Feet	0.91	657,000
					<b>0.91</b>	

**Trip Generation**

	Daily VMT per Employee	Total Project Daily VMT	Annual VMT per Employee	Total Project Annual VMT
Regional Average <sup>1</sup>	21.83	2,183.00	5,544.82	554,482.00

Land Use	Average Daily Trip Rate		
	weekday	Saturday	Sunday
Government Office Building	7.557305936	0	0

Land Use	Miles			Trip %			Trip Purpose		
	H-w or C-W	H-S or C-C	H-O or C-O	H-w or C-W	H-S or C-C	H-O or C-O	Primary	Diverted	Pass-by
Government Office Building	1.00	0.50	0.75	33.0%	62.0%	5.0%	50.0%	34.0%	16.0%

<sup>1</sup> City of Sacramento, Central City Specific Plan. 2018. [http://www.cityofsacramento.org/-/media/Corporate/Files/CDD/Planning/Major-Projects/Central-City-Specific-Plan/Final-docs/CCSP\\_Certified\\_EIR\\_April2018\\_WEB.pdf?la=en](http://www.cityofsacramento.org/-/media/Corporate/Files/CDD/Planning/Major-Projects/Central-City-Specific-Plan/Final-docs/CCSP_Certified_EIR_April2018_WEB.pdf?la=en)

**Water Use**

	Existing Use (gal/day) <sup>1</sup>	Existing Use (gal/year)	Existing Use + Project (4% increase) (gal/year)	Project Change (gal/year)
Government Office Building	13,700	5,000,500	5,014,200	13,700

Septic Tank	0%
Aerobic	100%
Facultative Lagoons	0%

<sup>1</sup> Wilburn, Paul. California Department of General Services. 2019. May 3, 2019 – email conversation with Suzanne Enslow of Ascent Environmental regarding existing potable water demand at the Bateson Building

**Solid Waste**

	Employees	Solid Waste Generation (tons/employee/year) <sup>1</sup>	Total (tons/year)
Government Office Building	100	0.59	59.00

<sup>1</sup> CalRecycle.1990. Institutional Sector (Government) Sector Rate. <https://www2.calrecycle.ca.gov/wastecharacterization/general/rates>

**Stationary Sources**

	# of Equipment	Fuel Type	kW <sup>1</sup>	HP	Hours/Yr <sup>2</sup>
Emergency Generator	1	Diesel	850	1,139	500

<sup>1</sup> Existing Bateson generator (150 kW) will be replaced with a 1,000kW generator.

<sup>2</sup> 500 hours per year is maximum capacity of most generators.

**Energy Mitigation**

**On-site Renewable Energy**

Alternative Energy	% of Electricity Use Generated
	100%

\*Under contract with SMUD.