

# **APPENDIX B**

American River College - Corporation Yard Relocation Project - Sacramento County, Annual

**American River College - Corporation Yard Relocation Project  
Sacramento County, Annual**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	30.00	1000sqft	0.69	30,000.00	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>	2022
<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**

- Project Characteristics -
- Land Use -
- Demolition -
- Sequestration -
- Construction Off-road Equipment Mitigation -
- Area Mitigation -
- Water Mitigation -
- Waste Mitigation -
- Energy Mitigation -

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Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblSequestration	NumberOfNewTrees	0.00	15.00

**2.0 Emissions Summary**

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	11-1-2020	1-31-2021	0.3261	0.3261
2	2-1-2021	4-30-2021	0.3831	0.3831
		Highest	0.3831	0.3831

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.1311	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	4.2400e-003	0.0386	0.0324	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	110.2065	110.2065	4.1600e-003	1.4600e-003	110.7465
Mobile	0.1690	0.6892	1.7328	5.1900e-003	0.4411	4.6700e-003	0.4458	0.1183	4.3700e-003	0.1226	0.0000	477.0928	477.0928	0.0239	0.0000	477.6892
Waste						0.0000	0.0000		0.0000	0.0000	7.9167	0.0000	7.9167	0.4679	0.0000	19.6132
Water						0.0000	0.0000		0.0000	0.0000	0.5206	4.1201	4.6407	1.9900e-003	1.1700e-003	5.0404
<b>Total</b>	<b>0.3043</b>	<b>0.7278</b>	<b>1.7656</b>	<b>5.4200e-003</b>	<b>0.4411</b>	<b>7.6000e-003</b>	<b>0.4487</b>	<b>0.1183</b>	<b>7.3000e-003</b>	<b>0.1256</b>	<b>8.4373</b>	<b>591.4201</b>	<b>599.8574</b>	<b>0.4979</b>	<b>2.6300e-003</b>	<b>613.0900</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	0.1311	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Energy	4.1600e-003	0.0378	0.0318	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	108.3455	108.3455	4.0900e-003	1.4400e-003	108.8761
Mobile	0.1690	0.6892	1.7328	5.1900e-003	0.4411	4.6700e-003	0.4458	0.1183	4.3700e-003	0.1226	0.0000	477.0928	477.0928	0.0239	0.0000	477.6892
Waste						0.0000	0.0000		0.0000	0.0000	6.7292	0.0000	6.7292	0.3977	0.0000	16.6712
Water						0.0000	0.0000		0.0000	0.0000	0.4863	3.8589	4.3452	1.8600e-003	1.1000e-003	4.7186
<b>Total</b>	<b>0.3042</b>	<b>0.7270</b>	<b>1.7649</b>	<b>5.4200e-003</b>	<b>0.4411</b>	<b>7.5400e-003</b>	<b>0.4487</b>	<b>0.1183</b>	<b>7.2400e-003</b>	<b>0.1255</b>	<b>7.2154</b>	<b>589.2980</b>	<b>596.5134</b>	<b>0.4275</b>	<b>2.5400e-003</b>	<b>607.9559</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>0.03</b>	<b>0.11</b>	<b>0.04</b>	<b>0.00</b>	<b>0.00</b>	<b>0.79</b>	<b>0.01</b>	<b>0.00</b>	<b>0.82</b>	<b>0.05</b>	<b>14.48</b>	<b>0.36</b>	<b>0.56</b>	<b>14.14</b>	<b>3.42</b>	<b>0.84</b>

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**2.3 Vegetation**

Vegetation

	CO2e
Category	MT
New Trees	10.6200
<b>Total</b>	<b>10.6200</b>

**3.0 Construction Detail**

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2020	11/13/2020	5	10	
2	Site Preparation	Site Preparation	11/14/2020	11/16/2020	5	1	
3	Grading	Grading	11/17/2020	11/18/2020	5	2	
4	Building Construction	Building Construction	11/19/2020	4/7/2021	5	100	
5	Paving	Paving	4/8/2021	4/14/2021	5	5	
6	Architectural Coating	Architectural Coating	4/15/2021	4/21/2021	5	5	

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

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

**Acres of Paving: 0**

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**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 45,000; Non-Residential Outdoor: 15,000; Striped Parking Area: 0  
(Architectural Coating – sqft)**

**OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
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
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	6.00	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**



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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	4	10.00	0.00	43.00	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
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	13.00	5.00	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	3.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

**3.2 Demolition - 2020**

**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					4.8000e-003	0.0000	4.8000e-003	7.3000e-004	0.0000	7.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
<b>Total</b>	<b>4.3400e-003</b>	<b>0.0394</b>	<b>0.0381</b>	<b>6.0000e-005</b>	<b>4.8000e-003</b>	<b>2.3400e-003</b>	<b>7.1400e-003</b>	<b>7.3000e-004</b>	<b>2.2300e-003</b>	<b>2.9600e-003</b>	<b>0.0000</b>	<b>5.2038</b>	<b>5.2038</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>5.2284</b>

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**3.2 Demolition - 2020**

**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	1.7000e-004	6.1800e-003	1.4000e-003	2.0000e-005	3.6000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6450	1.6450	1.0000e-004	0.0000	1.6474
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3800e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3254	0.3254	1.0000e-005	0.0000	0.3256
<b>Total</b>	<b>3.6000e-004</b>	<b>6.3100e-003</b>	<b>2.7800e-003</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.9704</b>	<b>1.9704</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9730</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					2.1600e-003	0.0000	2.1600e-003	3.3000e-004	0.0000	3.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
<b>Total</b>	<b>4.3400e-003</b>	<b>0.0394</b>	<b>0.0381</b>	<b>6.0000e-005</b>	<b>2.1600e-003</b>	<b>2.3400e-003</b>	<b>4.5000e-003</b>	<b>3.3000e-004</b>	<b>2.2300e-003</b>	<b>2.5600e-003</b>	<b>0.0000</b>	<b>5.2038</b>	<b>5.2038</b>	<b>9.8000e-004</b>	<b>0.0000</b>	<b>5.2284</b>

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**3.2 Demolition - 2020**

**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	1.7000e-004	6.1800e-003	1.4000e-003	2.0000e-005	3.6000e-004	2.0000e-005	3.8000e-004	1.0000e-004	2.0000e-005	1.2000e-004	0.0000	1.6450	1.6450	1.0000e-004	0.0000	1.6474
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	1.3000e-004	1.3800e-003	0.0000	3.7000e-004	0.0000	3.7000e-004	1.0000e-004	0.0000	1.0000e-004	0.0000	0.3254	0.3254	1.0000e-005	0.0000	0.3256
<b>Total</b>	<b>3.6000e-004</b>	<b>6.3100e-003</b>	<b>2.7800e-003</b>	<b>2.0000e-005</b>	<b>7.3000e-004</b>	<b>2.0000e-005</b>	<b>7.5000e-004</b>	<b>2.0000e-004</b>	<b>2.0000e-005</b>	<b>2.2000e-004</b>	<b>0.0000</b>	<b>1.9704</b>	<b>1.9704</b>	<b>1.1000e-004</b>	<b>0.0000</b>	<b>1.9730</b>

**3.3 Site Preparation - 2020**

**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	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
<b>Total</b>	<b>3.4000e-004</b>	<b>4.2200e-003</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>2.7000e-004</b>	<b>1.7000e-004</b>	<b>4.4000e-004</b>	<b>3.0000e-005</b>	<b>1.5000e-004</b>	<b>1.8000e-004</b>	<b>0.0000</b>	<b>0.4280</b>	<b>0.4280</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4314</b>

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**3.3 Site Preparation - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0163	0.0163	0.0000	0.0000	0.0163
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0163</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	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
<b>Total</b>	<b>3.4000e-004</b>	<b>4.2200e-003</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>1.7000e-004</b>	<b>2.9000e-004</b>	<b>1.0000e-005</b>	<b>1.5000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.4280</b>	<b>0.4280</b>	<b>1.4000e-004</b>	<b>0.0000</b>	<b>0.4314</b>

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**3.3 Site Preparation - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-005	1.0000e-005	7.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.0163	0.0163	0.0000	0.0000	0.0163
<b>Total</b>	<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0000</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.0163</b>	<b>0.0163</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0163</b>

**3.4 Grading - 2020**

**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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
<b>Total</b>	<b>8.7000e-004</b>	<b>7.8700e-003</b>	<b>7.6200e-003</b>	<b>1.0000e-005</b>	<b>7.5000e-004</b>	<b>4.7000e-004</b>	<b>1.2200e-003</b>	<b>4.1000e-004</b>	<b>4.5000e-004</b>	<b>8.6000e-004</b>	<b>0.0000</b>	<b>1.0408</b>	<b>1.0408</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0457</b>

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**3.4 Grading - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0651
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0651</b>	<b>0.0651</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0651</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					3.4000e-004	0.0000	3.4000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.7000e-004	7.8700e-003	7.6200e-003	1.0000e-005		4.7000e-004	4.7000e-004		4.5000e-004	4.5000e-004	0.0000	1.0408	1.0408	2.0000e-004	0.0000	1.0457
<b>Total</b>	<b>8.7000e-004</b>	<b>7.8700e-003</b>	<b>7.6200e-003</b>	<b>1.0000e-005</b>	<b>3.4000e-004</b>	<b>4.7000e-004</b>	<b>8.1000e-004</b>	<b>1.9000e-004</b>	<b>4.5000e-004</b>	<b>6.4000e-004</b>	<b>0.0000</b>	<b>1.0408</b>	<b>1.0408</b>	<b>2.0000e-004</b>	<b>0.0000</b>	<b>1.0457</b>

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**3.4 Grading - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.0000e-005	3.0000e-005	2.8000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0651	0.0651	0.0000	0.0000	0.0651
<b>Total</b>	<b>4.0000e-005</b>	<b>3.0000e-005</b>	<b>2.8000e-004</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>0.0000</b>	<b>7.0000e-005</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>2.0000e-005</b>	<b>0.0000</b>	<b>0.0651</b>	<b>0.0651</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0651</b>

**3.5 Building Construction - 2020**

**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	0.0134	0.1372	0.1145	1.8000e-004		8.1000e-003	8.1000e-003		7.4500e-003	7.4500e-003	0.0000	15.5094	15.5094	5.0200e-003	0.0000	15.6348
<b>Total</b>	<b>0.0134</b>	<b>0.1372</b>	<b>0.1145</b>	<b>1.8000e-004</b>		<b>8.1000e-003</b>	<b>8.1000e-003</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>15.5094</b>	<b>15.5094</b>	<b>5.0200e-003</b>	<b>0.0000</b>	<b>15.6348</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-004	8.6900e-003	2.4200e-003	2.0000e-005	4.5000e-004	4.0000e-005	5.0000e-004	1.3000e-004	4.0000e-005	1.7000e-004	0.0000	1.8338	1.8338	1.1000e-004	0.0000	1.8365
Worker	7.5000e-004	5.1000e-004	5.5800e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.3112	1.3112	4.0000e-005	0.0000	1.3122
<b>Total</b>	<b>1.0500e-003</b>	<b>9.2000e-003</b>	<b>8.0000e-003</b>	<b>3.0000e-005</b>	<b>1.9300e-003</b>	<b>5.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>5.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>3.1450</b>	<b>3.1450</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1486</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	0.0134	0.1372	0.1145	1.8000e-004		8.1000e-003	8.1000e-003		7.4500e-003	7.4500e-003	0.0000	15.5094	15.5094	5.0200e-003	0.0000	15.6348
<b>Total</b>	<b>0.0134</b>	<b>0.1372</b>	<b>0.1145</b>	<b>1.8000e-004</b>		<b>8.1000e-003</b>	<b>8.1000e-003</b>		<b>7.4500e-003</b>	<b>7.4500e-003</b>	<b>0.0000</b>	<b>15.5094</b>	<b>15.5094</b>	<b>5.0200e-003</b>	<b>0.0000</b>	<b>15.6348</b>



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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0000e-004	8.6900e-003	2.4200e-003	2.0000e-005	4.5000e-004	4.0000e-005	5.0000e-004	1.3000e-004	4.0000e-005	1.7000e-004	0.0000	1.8338	1.8338	1.1000e-004	0.0000	1.8365
Worker	7.5000e-004	5.1000e-004	5.5800e-003	1.0000e-005	1.4800e-003	1.0000e-005	1.4900e-003	3.9000e-004	1.0000e-005	4.0000e-004	0.0000	1.3112	1.3112	4.0000e-005	0.0000	1.3122
<b>Total</b>	<b>1.0500e-003</b>	<b>9.2000e-003</b>	<b>8.0000e-003</b>	<b>3.0000e-005</b>	<b>1.9300e-003</b>	<b>5.0000e-005</b>	<b>1.9900e-003</b>	<b>5.2000e-004</b>	<b>5.0000e-005</b>	<b>5.7000e-004</b>	<b>0.0000</b>	<b>3.1450</b>	<b>3.1450</b>	<b>1.5000e-004</b>	<b>0.0000</b>	<b>3.1486</b>

**3.5 Building Construction - 2021**

**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	0.0267	0.2755	0.2506	3.9000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	34.5283	34.5283	0.0112	0.0000	34.8075
<b>Total</b>	<b>0.0267</b>	<b>0.2755</b>	<b>0.2506</b>	<b>3.9000e-004</b>		<b>0.0154</b>	<b>0.0154</b>		<b>0.0142</b>	<b>0.0142</b>	<b>0.0000</b>	<b>34.5283</b>	<b>34.5283</b>	<b>0.0112</b>	<b>0.0000</b>	<b>34.8075</b>

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**3.5 Building Construction - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0177	4.7200e-003	4.0000e-005	1.0100e-003	5.0000e-005	1.0600e-003	2.9000e-004	5.0000e-005	3.4000e-004	0.0000	4.0476	4.0476	2.3000e-004	0.0000	4.0534
Worker	1.5500e-003	1.0100e-003	0.0114	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.8192	2.8192	7.0000e-005	0.0000	2.8210
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0187</b>	<b>0.0161</b>	<b>7.0000e-005</b>	<b>4.3000e-003</b>	<b>7.0000e-005</b>	<b>4.3800e-003</b>	<b>1.1700e-003</b>	<b>7.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>6.8668</b>	<b>6.8668</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8744</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	0.0267	0.2755	0.2506	3.9000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	34.5283	34.5283	0.0112	0.0000	34.8075
<b>Total</b>	<b>0.0267</b>	<b>0.2755</b>	<b>0.2506</b>	<b>3.9000e-004</b>		<b>0.0154</b>	<b>0.0154</b>		<b>0.0142</b>	<b>0.0142</b>	<b>0.0000</b>	<b>34.5283</b>	<b>34.5283</b>	<b>0.0112</b>	<b>0.0000</b>	<b>34.8075</b>

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**3.5 Building Construction - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.4000e-004	0.0177	4.7200e-003	4.0000e-005	1.0100e-003	5.0000e-005	1.0600e-003	2.9000e-004	5.0000e-005	3.4000e-004	0.0000	4.0476	4.0476	2.3000e-004	0.0000	4.0534
Worker	1.5500e-003	1.0100e-003	0.0114	3.0000e-005	3.2900e-003	2.0000e-005	3.3200e-003	8.8000e-004	2.0000e-005	9.0000e-004	0.0000	2.8192	2.8192	7.0000e-005	0.0000	2.8210
<b>Total</b>	<b>2.0900e-003</b>	<b>0.0187</b>	<b>0.0161</b>	<b>7.0000e-005</b>	<b>4.3000e-003</b>	<b>7.0000e-005</b>	<b>4.3800e-003</b>	<b>1.1700e-003</b>	<b>7.0000e-005</b>	<b>1.2400e-003</b>	<b>0.0000</b>	<b>6.8668</b>	<b>6.8668</b>	<b>3.0000e-004</b>	<b>0.0000</b>	<b>6.8744</b>

**3.6 Paving - 2021**

**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	1.8000e-003	0.0168	0.0177	3.0000e-005		8.8000e-004	8.8000e-004		8.2000e-004	8.2000e-004	0.0000	2.3481	2.3481	6.8000e-004	0.0000	2.3652
Paving	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>1.8000e-003</b>	<b>0.0168</b>	<b>0.0177</b>	<b>3.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.3481</b>	<b>2.3481</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3652</b>

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**3.6 Paving - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2829	0.2829	1.0000e-005	0.0000	0.2831
<b>Total</b>	<b>1.6000e-004</b>	<b>1.0000e-004</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2829</b>	<b>0.2829</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2831</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	1.8000e-003	0.0168	0.0177	3.0000e-005		8.8000e-004	8.8000e-004		8.2000e-004	8.2000e-004	0.0000	2.3481	2.3481	6.8000e-004	0.0000	2.3652
Paving	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>1.8000e-003</b>	<b>0.0168</b>	<b>0.0177</b>	<b>3.0000e-005</b>		<b>8.8000e-004</b>	<b>8.8000e-004</b>		<b>8.2000e-004</b>	<b>8.2000e-004</b>	<b>0.0000</b>	<b>2.3481</b>	<b>2.3481</b>	<b>6.8000e-004</b>	<b>0.0000</b>	<b>2.3652</b>

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**3.6 Paving - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	1.0000e-004	1.1400e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.2829	0.2829	1.0000e-005	0.0000	0.2831
<b>Total</b>	<b>1.6000e-004</b>	<b>1.0000e-004</b>	<b>1.1400e-003</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>0.0000</b>	<b>3.3000e-004</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>0.2829</b>	<b>0.2829</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.2831</b>

**3.7 Architectural Coating - 2021**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1391					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.1396</b>	<b>3.8200e-003</b>	<b>4.5400e-003</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>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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**3.7 Architectural Coating - 2021**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0471	0.0471	0.0000	0.0000	0.0472
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-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>2.0000e-005</b>	<b>0.0000</b>	<b>0.0471</b>	<b>0.0471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0472</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	0.1391					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.5000e-004	3.8200e-003	4.5400e-003	1.0000e-005		2.4000e-004	2.4000e-004		2.4000e-004	2.4000e-004	0.0000	0.6383	0.6383	4.0000e-005	0.0000	0.6394
<b>Total</b>	<b>0.1396</b>	<b>3.8200e-003</b>	<b>4.5400e-003</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>0.0000</b>	<b>0.6383</b>	<b>0.6383</b>	<b>4.0000e-005</b>	<b>0.0000</b>	<b>0.6394</b>

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**3.7 Architectural Coating - 2021**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.0000e-005	2.0000e-005	1.9000e-004	0.0000	6.0000e-005	0.0000	6.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.0471	0.0471	0.0000	0.0000	0.0472
<b>Total</b>	<b>3.0000e-005</b>	<b>2.0000e-005</b>	<b>1.9000e-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>2.0000e-005</b>	<b>0.0000</b>	<b>0.0471</b>	<b>0.0471</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.0472</b>

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1690	0.6892	1.7328	5.1900e-003	0.4411	4.6700e-003	0.4458	0.1183	4.3700e-003	0.1226	0.0000	477.0928	477.0928	0.0239	0.0000	477.6892
Unmitigated	0.1690	0.6892	1.7328	5.1900e-003	0.4411	4.6700e-003	0.4458	0.1183	4.3700e-003	0.1226	0.0000	477.0928	477.0928	0.0239	0.0000	477.6892

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Junior College (2Yr)	824.70	336.90	36.30	1,182,894	1,182,894
Total	824.70	336.90	36.30	1,182,894	1,182,894

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
Junior College (2Yr)	10.00	5.00	6.50	6.40	88.60	5.00	92	7	1

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Junior College (2Yr)	0.559527	0.038733	0.206173	0.118029	0.019040	0.005245	0.018552	0.023249	0.002031	0.002054	0.005884	0.000619	0.000865

5.0 Energy Detail

Historical Energy Use: N



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**5.1 Mitigation Measures Energy**

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	67.1703	67.1703	3.3000e-003	6.8000e-004	67.4563
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	68.1985	68.1985	3.3500e-003	6.9000e-004	68.4888
NaturalGas Mitigated	4.1600e-003	0.0378	0.0318	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1752	41.1752	7.9000e-004	7.5000e-004	41.4199
NaturalGas Unmitigated	4.2400e-003	0.0386	0.0324	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	42.0080	42.0080	8.1000e-004	7.7000e-004	42.2576

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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					
Junior College (2Yr)	787200	4.2400e-003	0.0386	0.0324	2.3000e-004		2.9300e-003	2.9300e-003		2.9300e-003	2.9300e-003	0.0000	42.0080	42.0080	8.1000e-004	7.7000e-004	42.2576
<b>Total</b>		<b>4.2400e-003</b>	<b>0.0386</b>	<b>0.0324</b>	<b>2.3000e-004</b>		<b>2.9300e-003</b>	<b>2.9300e-003</b>		<b>2.9300e-003</b>	<b>2.9300e-003</b>	<b>0.0000</b>	<b>42.0080</b>	<b>42.0080</b>	<b>8.1000e-004</b>	<b>7.7000e-004</b>	<b>42.2576</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					
Junior College (2Yr)	771594	4.1600e-003	0.0378	0.0318	2.3000e-004		2.8700e-003	2.8700e-003		2.8700e-003	2.8700e-003	0.0000	41.1752	41.1752	7.9000e-004	7.5000e-004	41.4199
<b>Total</b>		<b>4.1600e-003</b>	<b>0.0378</b>	<b>0.0318</b>	<b>2.3000e-004</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>		<b>2.8700e-003</b>	<b>2.8700e-003</b>	<b>0.0000</b>	<b>41.1752</b>	<b>41.1752</b>	<b>7.9000e-004</b>	<b>7.5000e-004</b>	<b>41.4199</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			
Junior College (2Yr)	254700	68.1985	3.3500e-003	6.9000e-004	68.4888
<b>Total</b>		<b>68.1985</b>	<b>3.3500e-003</b>	<b>6.9000e-004</b>	<b>68.4888</b>

**Mitigated**

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Junior College (2Yr)	250860	67.1703	3.3000e-003	6.8000e-004	67.4563
<b>Total</b>		<b>67.1703</b>	<b>3.3000e-003</b>	<b>6.8000e-004</b>	<b>67.4563</b>

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

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Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	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	0.1311	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
Unmitigated	0.1311	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004

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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1311</b>	<b>0.0000</b>	<b>3.8000e-004</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>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</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	0.0139					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.0000e-005	0.0000	3.8000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	7.4000e-004	7.4000e-004	0.0000	0.0000	7.9000e-004
<b>Total</b>	<b>0.1311</b>	<b>0.0000</b>	<b>3.8000e-004</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>7.4000e-004</b>	<b>7.4000e-004</b>	<b>0.0000</b>	<b>0.0000</b>	<b>7.9000e-004</b>

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

Install Low Flow Toilet

Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.3452	1.8600e-003	1.1000e-003	4.7186
Unmitigated	4.6407	1.9900e-003	1.1700e-003	5.0404

**7.2 Water by Land Use**

**Unmitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Junior College (2Yr)	1.47147 / 2.30153	4.6407	1.9900e-003	1.1700e-003	5.0404
<b>Total</b>		<b>4.6407</b>	<b>1.9900e-003</b>	<b>1.1700e-003</b>	<b>5.0404</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			
Junior College (2Yr)	1.37435 / 2.16114	4.3452	1.8600e-003	1.1000e-003	4.7186
<b>Total</b>		<b>4.3452</b>	<b>1.8600e-003</b>	<b>1.1000e-003</b>	<b>4.7186</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.7292	0.3977	0.0000	16.6712
Unmitigated	7.9167	0.4679	0.0000	19.6132

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	39	7.9167	0.4679	0.0000	19.6132
<b>Total</b>		<b>7.9167</b>	<b>0.4679</b>	<b>0.0000</b>	<b>19.6132</b>



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**8.2 Waste by Land Use**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Junior College (2Yr)	33.15	6.7292	0.3977	0.0000	16.6712
<b>Total</b>		<b>6.7292</b>	<b>0.3977</b>	<b>0.0000</b>	<b>16.6712</b>

**9.0 Operational Offroad**

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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**11.0 Vegetation**

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	10.6200	0.0000	0.0000	10.6200

**11.2 Net New Trees**

**Species Class**

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	15	10.6200	0.0000	0.0000	10.6200
<b>Total</b>		<b>10.6200</b>	<b>0.0000</b>	<b>0.0000</b>	<b>10.6200</b>

American River College - Corporation Yard Relocation Project - Sacramento County, Summary Report

**American River College - Corporation Yard Relocation Project  
Sacramento, Summary Report**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	30.00	1000sqft	0.69	30,000.00	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>	2022
<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**

Only CalEEMod defaults were used.

Project Characteristics -

Land Use -

Demolition -

Sequestration -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Water Mitigation -

Waste Mitigation -

Energy Mitigation -

American River College - Corporation Yard Relocation Project - Sacramento County, Summary Report

**2.0 Peak Daily Emissions**

**Peak Daily Construction Emissions**

**Peak Daily Construction Emissions**

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
lb/day													
2020	Demolition	0.9432 S	9.1429 W	8.2214 S	0.0162 S	1.5824 W	0.6364 W	0.9432 S	9.1429 W	8.2214 S	0.0162 S	1.0548 W	0.5565 W
2020	Site Preparation	0.7069 S	8.4448 W	4.2574 S	0.0101 S	0.9039 S	0.3761 S	0.7069 S	8.4448 W	4.2574 S	0.0101 S	0.6123 S	0.3446 S
2020	Grading	0.9105 S	7.9011 W	7.9491 S	0.0128 S	1.2966 S	0.8801 S	0.9105 S	7.9011 W	7.9491 S	0.0128 S	0.8825 S	0.6525 S
2020	Building Construction	0.9366 S	9.4493 W	7.9595 S	0.0137 S	0.6550 W	0.5189 W	0.9366 S	9.4493 W	7.9595 S	0.0137 S	0.6550 W	0.5189 W
2021	Building Construction	0.8425 S	8.5284 W	7.7808 S	0.0136 S	0.5787 W	0.4486 W	0.8425 S	8.5284 W	7.7808 S	0.0136 S	0.5787 W	0.4486 W
2021	Paving	0.7935 S	6.7634 W	7.6283 S	0.0127 S	0.4913 S	0.3657 S	0.7935 S	6.7634 W	7.6283 S	0.0127 S	0.4913 S	0.3657 S
2021	Architectural Coating	55.8509 S	1.5344 W	1.9073 S	3.2000e-003 S	0.1171 S	0.1003 S	55.8509 S	1.5344 W	1.9073 S	3.2000e-003 S	0.1171 S	0.1003 S
	Peak Daily Total	55.8509 S	9.4493 W	8.2214 S	0.0162 S	1.5824 W	0.8801 S	55.8509 S	9.4493 W	8.2214 S	0.0162 S	1.0548 W	0.6525 S
	Air District Threshold												
	Exceed Significance?												

**Peak Daily Operational Emissions**

**Peak Daily Operational Emissions**

