

APPENDIX D:
GREENHOUSE GAS EMISSIONS CALCULATIONS WORKSHEETS

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SMC Art Complex Replacement - Construction Emissions Only - South Coast AQMD Air District, Annual

SMC Art Complex Replacement - Construction Emissions Only
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1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 sf office space. Enrollment based on Fall 2019 enrollment

Construction Phase - Based on approximate 24-month construction timeline provided by Applicant.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Equipment use on worst-case day.

Grading - Estimated 32,000 cy export for one level subterranean.

Demolition -

Trips and VMT - Assumes 14 cy haul truck capacity with average 30 mi to disposal site

Vehicle Trips - IGNORE OPERATIONAL EMISSIONS FOR CONSTRUCTION EMISSIONS SCENARIO.

Stationary Sources - Emergency Generators and Fire Pumps -

Construction Off-road Equipment Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021

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tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblGrading	MaterialExported	0.00	32,000.00
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00
tblLandUse	LotAcreage	0.36	0.00
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.42	0.42
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Generator Sets
tblOffRoadEquipment	OffRoadEquipmentType		Pavers
tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentType		Cement and Mortar Mixers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripLength	20.00	30.00
tblTripsAndVMT	HaulingTripNumber	4,000.00	4,571.00

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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					
2021	0.1278	1.8032	0.9136	3.9100e-003	0.2257	0.0508	0.2764	0.1017	0.0475	0.1492	0.0000	367.9343	367.9343	0.0460	0.0000	369.0834
2022	0.3105	2.4995	2.7100	4.9100e-003	0.0263	0.1170	0.1433	7.1000e-003	0.1128	0.1199	0.0000	414.3460	414.3460	0.0669	0.0000	416.0183
2023	0.2092	0.8690	1.1128	1.9400e-003	8.0400e-003	0.0396	0.0477	2.1600e-003	0.0386	0.0408	0.0000	165.4037	165.4037	0.0235	0.0000	165.9921
Maximum	0.3105	2.4995	2.7100	4.9100e-003	0.2257	0.1170	0.2764	0.1017	0.1128	0.1492	0.0000	414.3460	414.3460	0.0669	0.0000	416.0183

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					
2021	0.1278	1.8032	0.9136	3.9100e-003	0.1385	0.0508	0.1893	0.0559	0.0475	0.1034	0.0000	367.9342	367.9342	0.0460	0.0000	369.0833
2022	0.3105	2.4995	2.7100	4.9100e-003	0.0263	0.1170	0.1433	7.1000e-003	0.1128	0.1199	0.0000	414.3456	414.3456	0.0669	0.0000	416.0178
2023	0.2092	0.8690	1.1128	1.9400e-003	8.0400e-003	0.0396	0.0477	2.1600e-003	0.0386	0.0408	0.0000	165.4035	165.4035	0.0235	0.0000	165.9920
Maximum	0.3105	2.4995	2.7100	4.9100e-003	0.1385	0.1170	0.1893	0.0559	0.1128	0.1199	0.0000	414.3456	414.3456	0.0669	0.0000	416.0178

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	33.51	0.00	18.64	41.29	0.00	14.78	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	7-19-2021	10-18-2021	0.9710	0.9710
2	10-19-2021	1-18-2022	1.0659	1.0659
3	1-19-2022	4-18-2022	0.6946	0.6946
4	4-19-2022	7-18-2022	0.7021	0.7021
5	7-19-2022	10-18-2022	0.7099	0.7099
6	10-19-2022	1-18-2023	0.7000	0.7000
7	1-19-2023	4-18-2023	0.5674	0.5674
8	4-19-2023	7-18-2023	0.2988	0.2988
9	7-19-2023	9-30-2023	0.0788	0.0788
		Highest	1.0659	1.0659

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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	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Energy	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	97.9730	97.9730	3.4200e-003	1.1200e-003	98.3907
Mobile	0.5603	2.7156	7.4054	0.0292	2.5208	0.0208	2.5416	0.6755	0.0193	0.6948	0.0000	2,704.8830	2,704.8830	0.1235	0.0000	2,707.9710
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	85.8936	0.0000	85.8936	5.0762	0.0000	212.7978
Water						0.0000	0.0000		0.0000	0.0000	1.6644	49.8018	51.4662	0.1730	4.4600e-003	57.1211
Total	0.6615	2.7860	7.4825	0.0295	2.5208	0.0243	2.5451	0.6755	0.0229	0.6984	87.5580	2,857.2857	2,944.8438	5.3769	5.5800e-003	3,080.9283

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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	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Energy	2.4500e-003	0.0223	0.0187	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	86.9974	86.9974	3.0500e-003	9.8000e-004	87.3660
Mobile	0.5603	2.7156	7.4054	0.0292	2.5208	0.0208	2.5416	0.6755	0.0193	0.6948	0.0000	2,704.8830	2,704.8830	0.1235	0.0000	2,707.9710
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	85.8936	0.0000	85.8936	5.0762	0.0000	212.7978
Water						0.0000	0.0000		0.0000	0.0000	1.3315	39.8415	41.1730	0.1384	3.5700e-003	45.6969
Total	0.6611	2.7822	7.4793	0.0294	2.5208	0.0240	2.5448	0.6755	0.0226	0.6981	87.2251	2,836.3498	2,923.5749	5.3419	4.5500e-003	3,058.4793

	ROG	NOx	CO	SO2	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	0.06	0.14	0.04	0.10	0.00	1.23	0.01	0.00	1.31	0.04	0.38	0.73	0.72	0.65	18.46	0.73

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	4	6.00	78	0.48
Grading	Excavators	1	8.00	158	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Architectural Coating	Aerial Lifts	2	8.00	63	0.31
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Pavers	1	6.00	130	0.42
Building Construction	Rollers	1	6.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Cement and Mortar Mixers	1	8.00	9	0.56
Building Construction	Cranes	1	6.00	231	0.29
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

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	62.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	4,571.00	14.70	6.90	30.00	LD_Mix	HDT_Mix	HHDT
Building Construction	11	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	6	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 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					
Fugitive Dust					6.7600e-003	0.0000	6.7600e-003	1.0200e-003	0.0000	1.0200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1785	23.1785	5.9300e-003	0.0000	23.3266
Total	0.0219	0.2167	0.1594	2.7000e-004	6.7600e-003	0.0115	0.0182	1.0200e-003	0.0107	0.0117	0.0000	23.1785	23.1785	5.9300e-003	0.0000	23.3266

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3.2 Demolition - 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	3.2000e-004	0.0107	2.3800e-003	3.0000e-005	8.0000e-004	4.0000e-005	8.4000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	3.3134	3.3134	2.1000e-004	0.0000	3.3187
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	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675
Total	9.2000e-004	0.0111	7.3600e-003	5.0000e-005	2.3700e-003	5.0000e-005	2.4200e-003	6.4000e-004	4.0000e-005	6.8000e-004	0.0000	4.6800	4.6800	2.5000e-004	0.0000	4.6862

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					3.0400e-003	0.0000	3.0400e-003	4.6000e-004	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1784	23.1784	5.9300e-003	0.0000	23.3266
Total	0.0219	0.2167	0.1594	2.7000e-004	3.0400e-003	0.0115	0.0145	4.6000e-004	0.0107	0.0112	0.0000	23.1784	23.1784	5.9300e-003	0.0000	23.3266

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3.2 Demolition - 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	3.2000e-004	0.0107	2.3800e-003	3.0000e-005	8.0000e-004	4.0000e-005	8.4000e-004	2.2000e-004	3.0000e-005	2.5000e-004	0.0000	3.3134	3.3134	2.1000e-004	0.0000	3.3187
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	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675
Total	9.2000e-004	0.0111	7.3600e-003	5.0000e-005	2.3700e-003	5.0000e-005	2.4200e-003	6.4000e-004	4.0000e-005	6.8000e-004	0.0000	4.6800	4.6800	2.5000e-004	0.0000	4.6862

3.3 Grading - 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					
Fugitive Dust					0.1517	0.0000	0.1517	0.0823	0.0000	0.0823	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0501	0.5443	0.3175	6.4000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	55.9152	55.9152	0.0181	0.0000	56.3674
Total	0.0501	0.5443	0.3175	6.4000e-004	0.1517	0.0245	0.1762	0.0823	0.0226	0.1048	0.0000	55.9152	55.9152	0.0181	0.0000	56.3674

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3.3 Grading - 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	0.0232	0.7869	0.1752	2.4900e-003	0.0589	2.6600e-003	0.0616	0.0162	2.5400e-003	0.0187	0.0000	244.2843	244.2843	0.0156	0.0000	244.6738
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	1.3800e-003	1.0200e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1537	3.1537	8.0000e-005	0.0000	3.1558
Total	0.0246	0.7879	0.1867	2.5200e-003	0.0625	2.6900e-003	0.0652	0.0171	2.5700e-003	0.0197	0.0000	247.4380	247.4380	0.0157	0.0000	247.8296

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					0.0682	0.0000	0.0682	0.0370	0.0000	0.0370	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0501	0.5443	0.3175	6.4000e-004		0.0245	0.0245		0.0226	0.0226	0.0000	55.9152	55.9152	0.0181	0.0000	56.3673
Total	0.0501	0.5443	0.3175	6.4000e-004	0.0682	0.0245	0.0928	0.0370	0.0226	0.0596	0.0000	55.9152	55.9152	0.0181	0.0000	56.3673

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3.3 Grading - 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	0.0232	0.7869	0.1752	2.4900e-003	0.0589	2.6600e-003	0.0616	0.0162	2.5400e-003	0.0187	0.0000	244.2843	244.2843	0.0156	0.0000	244.6738
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	1.3800e-003	1.0200e-003	0.0115	3.0000e-005	3.6200e-003	3.0000e-005	3.6500e-003	9.6000e-004	3.0000e-005	9.9000e-004	0.0000	3.1537	3.1537	8.0000e-005	0.0000	3.1558
Total	0.0246	0.7879	0.1867	2.5200e-003	0.0625	2.6900e-003	0.0652	0.0171	2.5700e-003	0.0197	0.0000	247.4380	247.4380	0.0157	0.0000	247.8296

3.4 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	0.0293	0.2360	0.2351	4.0000e-004		0.0120	0.0120		0.0116	0.0116	0.0000	33.3895	33.3895	5.8900e-003	0.0000	33.5367
Total	0.0293	0.2360	0.2351	4.0000e-004		0.0120	0.0120		0.0116	0.0116	0.0000	33.3895	33.3895	5.8900e-003	0.0000	33.5367

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3.4 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	2.0000e-004	6.6800e-003	1.6600e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.6846	1.6846	1.1000e-004	0.0000	1.6873
Worker	7.2000e-004	5.3000e-004	6.0100e-003	2.0000e-005	1.8900e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6485	1.6485	4.0000e-005	0.0000	1.6496
Total	9.2000e-004	7.2100e-003	7.6700e-003	4.0000e-005	2.3200e-003	2.0000e-005	2.3600e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	3.3331	3.3331	1.5000e-004	0.0000	3.3369

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	0.0293	0.2360	0.2351	4.0000e-004		0.0120	0.0120		0.0116	0.0116	0.0000	33.3895	33.3895	5.8900e-003	0.0000	33.5366
Total	0.0293	0.2360	0.2351	4.0000e-004		0.0120	0.0120		0.0116	0.0116	0.0000	33.3895	33.3895	5.8900e-003	0.0000	33.5366

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3.4 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	2.0000e-004	6.6800e-003	1.6600e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.6846	1.6846	1.1000e-004	0.0000	1.6873
Worker	7.2000e-004	5.3000e-004	6.0100e-003	2.0000e-005	1.8900e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6485	1.6485	4.0000e-005	0.0000	1.6496
Total	9.2000e-004	7.2100e-003	7.6700e-003	4.0000e-005	2.3200e-003	2.0000e-005	2.3600e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	3.3331	3.3331	1.5000e-004	0.0000	3.3369

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	0.3008	2.4225	2.6296	4.5200e-003		0.1167	0.1167		0.1126	0.1126	0.0000	377.5030	377.5030	0.0653	0.0000	379.1350
Total	0.3008	2.4225	2.6296	4.5200e-003		0.1167	0.1167		0.1126	0.1126	0.0000	377.5030	377.5030	0.0653	0.0000	379.1350

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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	0.0000	0.0000
Vendor	2.0800e-003	0.0716	0.0177	1.9000e-004	4.9200e-003	1.3000e-004	5.0500e-003	1.4200e-003	1.3000e-004	1.5400e-003	0.0000	18.8758	18.8758	1.1600e-003	0.0000	18.9047
Worker	7.6300e-003	5.4300e-003	0.0628	2.0000e-004	0.0214	1.6000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	17.9672	17.9672	4.5000e-004	0.0000	17.9785
Total	9.7100e-003	0.0770	0.0804	3.9000e-004	0.0263	2.9000e-004	0.0266	7.1000e-003	2.7000e-004	7.3700e-003	0.0000	36.8430	36.8430	1.6100e-003	0.0000	36.8833

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	0.3008	2.4225	2.6296	4.5200e-003		0.1167	0.1167		0.1126	0.1126	0.0000	377.5026	377.5026	0.0653	0.0000	379.1346
Total	0.3008	2.4225	2.6296	4.5200e-003		0.1167	0.1167		0.1126	0.1126	0.0000	377.5026	377.5026	0.0653	0.0000	379.1346

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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	0.0000	0.0000
Vendor	2.0800e-003	0.0716	0.0177	1.9000e-004	4.9200e-003	1.3000e-004	5.0500e-003	1.4200e-003	1.3000e-004	1.5400e-003	0.0000	18.8758	18.8758	1.1600e-003	0.0000	18.9047
Worker	7.6300e-003	5.4300e-003	0.0628	2.0000e-004	0.0214	1.6000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	17.9672	17.9672	4.5000e-004	0.0000	17.9785
Total	9.7100e-003	0.0770	0.0804	3.9000e-004	0.0263	2.9000e-004	0.0266	7.1000e-003	2.7000e-004	7.3700e-003	0.0000	36.8430	36.8430	1.6100e-003	0.0000	36.8833

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	0.0686	0.5563	0.6432	1.1100e-003		0.0252	0.0252		0.0243	0.0243	0.0000	92.9301	92.9301	0.0158	0.0000	93.3240
Total	0.0686	0.5563	0.6432	1.1100e-003		0.0252	0.0252		0.0243	0.0243	0.0000	92.9301	92.9301	0.0158	0.0000	93.3240

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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	0.0000	0.0000
Vendor	3.8000e-004	0.0133	3.8900e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	4.5063	4.5063	2.5000e-004	0.0000	4.5125
Worker	1.7700e-003	1.2100e-003	0.0142	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2578	4.2578	1.0000e-004	0.0000	4.2603
Total	2.1500e-003	0.0145	0.0181	1.0000e-004	6.4800e-003	6.0000e-005	6.5300e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	8.7641	8.7641	3.5000e-004	0.0000	8.7728

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	0.0686	0.5563	0.6432	1.1100e-003		0.0252	0.0252		0.0243	0.0243	0.0000	92.9300	92.9300	0.0158	0.0000	93.3239
Total	0.0686	0.5563	0.6432	1.1100e-003		0.0252	0.0252		0.0243	0.0243	0.0000	92.9300	92.9300	0.0158	0.0000	93.3239

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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	0.0000	0.0000
Vendor	3.8000e-004	0.0133	3.8900e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	4.5063	4.5063	2.5000e-004	0.0000	4.5125
Worker	1.7700e-003	1.2100e-003	0.0142	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2578	4.2578	1.0000e-004	0.0000	4.2603
Total	2.1500e-003	0.0145	0.0181	1.0000e-004	6.4800e-003	6.0000e-005	6.5300e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	8.7641	8.7641	3.5000e-004	0.0000	8.7728

3.5 Architectural Coating - 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					
Archit. Coating	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0397	0.2979	0.4473	7.2000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	62.4454	62.4454	7.4100e-003	0.0000	62.6307
Total	0.1379	0.2979	0.4473	7.2000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	62.4454	62.4454	7.4100e-003	0.0000	62.6307

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3.5 Architectural Coating - 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	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	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648
Total	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648

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	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0397	0.2979	0.4473	7.2000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	62.4454	62.4454	7.4100e-003	0.0000	62.6306
Total	0.1379	0.2979	0.4473	7.2000e-004		0.0143	0.0143		0.0143	0.0143	0.0000	62.4454	62.4454	7.4100e-003	0.0000	62.6306

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3.5 Architectural Coating - 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	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	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648
Total	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648

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	0.5603	2.7156	7.4054	0.0292	2.5208	0.0208	2.5416	0.6755	0.0193	0.6948	0.0000	2,704.8830	2,704.8830	0.1235	0.0000	2,707.9710
Unmitigated	0.5603	2.7156	7.4054	0.0292	2.5208	0.0208	2.5416	0.6755	0.0193	0.6948	0.0000	2,704.8830	2,704.8830	0.1235	0.0000	2,707.9710

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	18.66	4.16	1.78	45,677	45,677
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,859.96	974.36	94.18	6,633,984	6,633,984

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	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	62.7306	62.7306	2.5900e-003	5.4000e-004	62.9551
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.5358	69.5358	2.8700e-003	5.9000e-004	69.7846
NaturalGas Mitigated	2.4500e-003	0.0223	0.0187	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	24.2667	24.2667	4.7000e-004	4.4000e-004	24.4109
NaturalGas Unmitigated	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4371	28.4371	5.5000e-004	5.2000e-004	28.6061

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5.2 Energy by Land Use - Natural Gas

Unmitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	17613.7	9.0000e-005	8.6000e-004	7.3000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9399	0.9399	2.0000e-005	2.0000e-005	0.9455
Junior College (2Yr)	515278	2.7800e-003	0.0253	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4972	27.4972	5.3000e-004	5.0000e-004	27.6606
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8700e-003	0.0261	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4372	28.4372	5.5000e-004	5.2000e-004	28.6061

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
General Office Building	15070.6	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8042	0.8042	2.0000e-005	1.0000e-005	0.8090
Junior College (2Yr)	439670	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4625	23.4625	4.5000e-004	4.3000e-004	23.6019
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.2667	24.2667	4.7000e-004	4.4000e-004	24.4109

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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	21979.1	7.0030	2.9000e-004	6.0000e-005	7.0281
Junior College (2Yr)	190661	60.7485	2.5100e-003	5.2000e-004	60.9659
Parking Lot	5600	1.7843	7.0000e-005	2.0000e-005	1.7907
Total		69.5358	2.8700e-003	6.0000e-004	69.7846

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	19841	6.3218	2.6000e-004	5.0000e-005	6.3444
Junior College (2Yr)	172294	54.8966	2.2700e-003	4.7000e-004	55.0930
Parking Lot	4746.19	1.5122	6.0000e-005	1.0000e-005	1.5177
Total		62.7306	2.5900e-003	5.3000e-004	62.9551

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Unmitigated	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

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	9.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7800e-003	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Total	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

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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	9.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7800e-003	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Total	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.1730	0.1384	3.5700e-003	45.6969
Unmitigated	51.4662	0.1730	4.4600e-003	57.1211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.30037 / 0.184098	1.9931	9.8700e-003	2.5000e-004	2.3135
Junior College (2Yr)	4.94594 / 7.73596	49.4731	0.1631	4.2100e-003	54.8076
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		51.4662	0.1730	4.4600e-003	57.1211

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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	0.240296 / 0.147278	1.5945	7.8900e-003	2.0000e-004	1.8508
Junior College (2Yr)	3.95675 / 6.18877	39.5785	0.1305	3.3700e-003	43.8461
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		41.1730	0.1384	3.5700e-003	45.6968

8.0 Waste Detail

8.1 Mitigation Measures Waste

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	85.8936	5.0762	0.0000	212.7978
Unmitigated	85.8936	5.0762	0.0000	212.7978

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.57	0.3187	0.0188	0.0000	0.7896
Junior College (2Yr)	421.57	85.5749	5.0573	0.0000	212.0082
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		85.8936	5.0762	0.0000	212.7978

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.57	0.3187	0.0188	0.0000	0.7896
Junior College (2Yr)	421.57	85.5749	5.0573	0.0000	212.0082
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		85.8936	5.0762	0.0000	212.7978

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
Emergency Generator	1	0.5	12	1000	0.73	Diesel

Boilers

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

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Equipment Type	Number
----------------	--------

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)	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Total	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	2,310.00	Student	1.65	19,028.00	0
General Office Building	1.69	1000sqft	0.00	1,692.00	0
Parking Lot	40.00	Space	0.00	16,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	11			Operational Year	2023
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Proposed 20,720 sf Art Complex Replacement building with 19,028 sf classroom/lab space and 1,692 office space. Enrollment based on Fall 2019 enrollment.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR OPERATIONAL EMISSIONS SCENARIO.

Vehicle Trips - Mobile trips based on Transportation Assessment.

Stationary Sources - Emergency Generators and Fire Pumps -

Sequestration -

Energy Mitigation - 15 percent reduction above Title 24 and solar requirement of 2 watts/building sf

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	95.00
tblConstructionPhase	NumDays	200.00	347.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	4.00	66.00
tblConstructionPhase	PhaseEndDate	6/27/2022	8/11/2023
tblConstructionPhase	PhaseEndDate	5/30/2022	3/30/2023
tblConstructionPhase	PhaseEndDate	8/13/2021	8/31/2021
tblConstructionPhase	PhaseEndDate	8/23/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	6/14/2022	4/1/2023
tblConstructionPhase	PhaseStartDate	8/24/2021	12/1/2021
tblConstructionPhase	PhaseStartDate	7/19/2021	8/1/2021
tblConstructionPhase	PhaseStartDate	8/18/2021	9/1/2021
tblGrading	AcresOfGrading	24.75	1.50
tblLandUse	LandUseSquareFeet	100,836.67	19,028.00
tblLandUse	LotAcreage	2.31	1.65
tblLandUse	LotAcreage	0.04	0.00

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tblLandUse	LotAcreage	0.36	0.00
tblSequestration	NumberOfNewTrees	0.00	19.00
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,000.00
tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	12.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00

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					
2021	0.0879	0.8549	0.5386	1.0600e-003	0.1566	0.0404	0.1971	0.0838	0.0377	0.1215	0.0000	92.1452	92.1452	0.0231	0.0000	92.7233
2022	0.2240	1.7024	1.7349	3.2600e-003	0.0263	0.0768	0.1032	7.1000e-003	0.0742	0.0813	0.0000	272.8930	272.8930	0.0427	0.0000	273.9611
2023	0.1588	0.4515	0.5119	9.5000e-004	8.0400e-003	0.0199	0.0279	2.1600e-003	0.0193	0.0215	0.0000	80.2678	80.2678	0.0110	0.0000	80.5420
Maximum	0.2240	1.7024	1.7349	3.2600e-003	0.1566	0.0768	0.1971	0.0838	0.0742	0.1215	0.0000	272.8930	272.8930	0.0427	0.0000	273.9611

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					
2021	0.0879	0.8549	0.5386	1.0600e-003	0.1566	0.0404	0.1971	0.0838	0.0377	0.1215	0.0000	92.1451	92.1451	0.0231	0.0000	92.7232
2022	0.2240	1.7024	1.7349	3.2600e-003	0.0263	0.0768	0.1032	7.1000e-003	0.0742	0.0813	0.0000	272.8927	272.8927	0.0427	0.0000	273.9608
2023	0.1588	0.4515	0.5119	9.5000e-004	8.0400e-003	0.0199	0.0279	2.1600e-003	0.0193	0.0215	0.0000	80.2677	80.2677	0.0110	0.0000	80.5420
Maximum	0.2240	1.7024	1.7349	3.2600e-003	0.1566	0.0768	0.1971	0.0838	0.0742	0.1215	0.0000	272.8927	272.8927	0.0427	0.0000	273.9608

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

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-19-2021	10-18-2021	0.5099	0.5099
2	10-19-2021	1-18-2022	0.5204	0.5204
3	1-19-2022	4-18-2022	0.4761	0.4761
4	4-19-2022	7-18-2022	0.4812	0.4812
5	7-19-2022	10-18-2022	0.4866	0.4866
6	10-19-2022	1-18-2023	0.4799	0.4799
7	1-19-2023	4-18-2023	0.3717	0.3717
8	4-19-2023	7-18-2023	0.1164	0.1164
9	7-19-2023	9-30-2023	0.0307	0.0307
		Highest	0.5204	0.5204

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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	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Energy	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	97.9730	97.9730	3.4200e-003	1.1200e-003	98.3907
Mobile	0.5566	2.6975	7.3550	0.0290	2.5034	0.0207	2.5241	0.6708	0.0192	0.6900	0.0000	2,686.3377	2,686.3377	0.1227	0.0000	2,689.4046
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	85.8936	0.0000	85.8936	5.0762	0.0000	212.7978
Water						0.0000	0.0000		0.0000	0.0000	1.6644	49.8018	51.4662	0.1730	4.4600e-003	57.1211
Total	0.6578	2.7679	7.4321	0.0293	2.5034	0.0242	2.5276	0.6708	0.0228	0.6936	87.5580	2,838.7404	2,926.2984	5.3761	5.5800e-003	3,062.3619

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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	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Energy	2.4500e-003	0.0223	0.0187	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	86.9974	86.9974	3.0500e-003	9.8000e-004	87.3660
Mobile	0.5566	2.6975	7.3550	0.0290	2.5034	0.0207	2.5241	0.6708	0.0192	0.6900	0.0000	2,686.3377	2,686.3377	0.1227	0.0000	2,689.4046
Stationary	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Waste						0.0000	0.0000		0.0000	0.0000	42.9468	0.0000	42.9468	2.5381	0.0000	106.3989
Water						0.0000	0.0000		0.0000	0.0000	1.3315	39.8415	41.1730	0.1384	3.5700e-003	45.6969
Total	0.6574	2.7641	7.4289	0.0292	2.5034	0.0239	2.5273	0.6708	0.0225	0.6933	44.2783	2,817.8044	2,862.0828	2.8030	4.5500e-003	2,933.5141

	ROG	NOx	CO	SO2	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	0.06	0.14	0.04	0.10	0.00	1.24	0.01	0.00	1.32	0.04	49.43	0.74	2.19	47.86	18.46	4.21

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2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	13.4520
Total	13.4520

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	8/1/2021	8/31/2021	5	22	
2	Grading	Grading	9/1/2021	12/1/2021	5	66	
3	Building Construction	Building Construction	12/1/2021	3/30/2023	5	347	
4	Architectural Coating	Architectural Coating	4/1/2023	8/11/2023	5	95	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 31,080; Non-Residential Outdoor: 10,360; Striped Parking Area: 960 (Architectural Coating – sqft)

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OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	6.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Rubber Tired Dozers	1	6.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	6.00	187	0.41
Building Construction	Welders	3	8.00	46	0.45

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	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	7	15.00	6.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	3.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

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3.2 Demolition - 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	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1785	23.1785	5.9300e-003	0.0000	23.3266
Total	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1785	23.1785	5.9300e-003	0.0000	23.3266

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	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675
Total	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675

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3.2 Demolition - 2021

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	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1784	23.1784	5.9300e-003	0.0000	23.3266
Total	0.0219	0.2167	0.1594	2.7000e-004		0.0115	0.0115		0.0107	0.0107	0.0000	23.1784	23.1784	5.9300e-003	0.0000	23.3266

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	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675
Total	6.0000e-004	4.4000e-004	4.9800e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.3666	1.3666	4.0000e-005	0.0000	1.3675

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3.3 Grading - 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					
Fugitive Dust					0.1498	0.0000	0.1498	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4729	0.2089	4.6000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	40.8661	40.8661	0.0132	0.0000	41.1965
Total	0.0425	0.4729	0.2089	4.6000e-004	0.1498	0.0211	0.1709	0.0820	0.0194	0.1014	0.0000	40.8661	40.8661	0.0132	0.0000	41.1965

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	1.1000e-003	8.1000e-004	9.2000e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5229	2.5229	7.0000e-005	0.0000	2.5246
Total	1.1000e-003	8.1000e-004	9.2000e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5229	2.5229	7.0000e-005	0.0000	2.5246

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3.3 Grading - 2021

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					0.1498	0.0000	0.1498	0.0820	0.0000	0.0820	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0425	0.4729	0.2089	4.6000e-004		0.0211	0.0211		0.0194	0.0194	0.0000	40.8660	40.8660	0.0132	0.0000	41.1965
Total	0.0425	0.4729	0.2089	4.6000e-004	0.1498	0.0211	0.1709	0.0820	0.0194	0.1014	0.0000	40.8660	40.8660	0.0132	0.0000	41.1965

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	1.1000e-003	8.1000e-004	9.2000e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5229	2.5229	7.0000e-005	0.0000	2.5246
Total	1.1000e-003	8.1000e-004	9.2000e-003	3.0000e-005	2.9000e-003	2.0000e-005	2.9200e-003	7.7000e-004	2.0000e-005	7.9000e-004	0.0000	2.5229	2.5229	7.0000e-005	0.0000	2.5246

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3.4 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	0.0208	0.1568	0.1483	2.5000e-004		7.8700e-003	7.8700e-003		7.6000e-003	7.6000e-003	0.0000	20.8780	20.8780	3.7300e-003	0.0000	20.9712
Total	0.0208	0.1568	0.1483	2.5000e-004		7.8700e-003	7.8700e-003		7.6000e-003	7.6000e-003	0.0000	20.8780	20.8780	3.7300e-003	0.0000	20.9712

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	2.0000e-004	6.6800e-003	1.6600e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.6846	1.6846	1.1000e-004	0.0000	1.6873
Worker	7.2000e-004	5.3000e-004	6.0100e-003	2.0000e-005	1.8900e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6485	1.6485	4.0000e-005	0.0000	1.6496
Total	9.2000e-004	7.2100e-003	7.6700e-003	4.0000e-005	2.3200e-003	2.0000e-005	2.3600e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	3.3331	3.3331	1.5000e-004	0.0000	3.3369

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3.4 Building Construction - 2021

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	0.0208	0.1568	0.1483	2.5000e-004		7.8700e-003	7.8700e-003		7.6000e-003	7.6000e-003	0.0000	20.8780	20.8780	3.7300e-003	0.0000	20.9711
Total	0.0208	0.1568	0.1483	2.5000e-004		7.8700e-003	7.8700e-003		7.6000e-003	7.6000e-003	0.0000	20.8780	20.8780	3.7300e-003	0.0000	20.9711

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	2.0000e-004	6.6800e-003	1.6600e-003	2.0000e-005	4.3000e-004	1.0000e-005	4.5000e-004	1.3000e-004	1.0000e-005	1.4000e-004	0.0000	1.6846	1.6846	1.1000e-004	0.0000	1.6873
Worker	7.2000e-004	5.3000e-004	6.0100e-003	2.0000e-005	1.8900e-003	1.0000e-005	1.9100e-003	5.0000e-004	1.0000e-005	5.2000e-004	0.0000	1.6485	1.6485	4.0000e-005	0.0000	1.6496
Total	9.2000e-004	7.2100e-003	7.6700e-003	4.0000e-005	2.3200e-003	2.0000e-005	2.3600e-003	6.3000e-004	2.0000e-005	6.6000e-004	0.0000	3.3331	3.3331	1.5000e-004	0.0000	3.3369

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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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0500	236.0500	0.0411	0.0000	237.0778

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	2.0800e-003	0.0716	0.0177	1.9000e-004	4.9200e-003	1.3000e-004	5.0500e-003	1.4200e-003	1.3000e-004	1.5400e-003	0.0000	18.8758	18.8758	1.1600e-003	0.0000	18.9047
Worker	7.6300e-003	5.4300e-003	0.0628	2.0000e-004	0.0214	1.6000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	17.9672	17.9672	4.5000e-004	0.0000	17.9785
Total	9.7100e-003	0.0770	0.0804	3.9000e-004	0.0263	2.9000e-004	0.0266	7.1000e-003	2.7000e-004	7.3700e-003	0.0000	36.8430	36.8430	1.6100e-003	0.0000	36.8833

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3.4 Building Construction - 2022

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	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775
Total	0.2143	1.6254	1.6544	2.8700e-003		0.0766	0.0766		0.0740	0.0740	0.0000	236.0497	236.0497	0.0411	0.0000	237.0775

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	2.0800e-003	0.0716	0.0177	1.9000e-004	4.9200e-003	1.3000e-004	5.0500e-003	1.4200e-003	1.3000e-004	1.5400e-003	0.0000	18.8758	18.8758	1.1600e-003	0.0000	18.9047
Worker	7.6300e-003	5.4300e-003	0.0628	2.0000e-004	0.0214	1.6000e-004	0.0216	5.6800e-003	1.4000e-004	5.8300e-003	0.0000	17.9672	17.9672	4.5000e-004	0.0000	17.9785
Total	9.7100e-003	0.0770	0.0804	3.9000e-004	0.0263	2.9000e-004	0.0266	7.1000e-003	2.7000e-004	7.3700e-003	0.0000	36.8430	36.8430	1.6100e-003	0.0000	36.8833

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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	0.0487	0.3747	0.4036	7.1000e-004		0.0165	0.0165		0.0159	0.0159	0.0000	58.1117	58.1117	9.8700e-003	0.0000	58.3584
Total	0.0487	0.3747	0.4036	7.1000e-004		0.0165	0.0165		0.0159	0.0159	0.0000	58.1117	58.1117	9.8700e-003	0.0000	58.3584

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	3.8000e-004	0.0133	3.8900e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	4.5063	4.5063	2.5000e-004	0.0000	4.5125
Worker	1.7700e-003	1.2100e-003	0.0142	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2578	4.2578	1.0000e-004	0.0000	4.2603
Total	2.1500e-003	0.0145	0.0181	1.0000e-004	6.4800e-003	6.0000e-005	6.5300e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	8.7641	8.7641	3.5000e-004	0.0000	8.7728

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3.4 Building Construction - 2023

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	0.0487	0.3747	0.4036	7.1000e-004		0.0165	0.0165		0.0159	0.0159	0.0000	58.1117	58.1117	9.8700e-003	0.0000	58.3584
Total	0.0487	0.3747	0.4036	7.1000e-004		0.0165	0.0165		0.0159	0.0159	0.0000	58.1117	58.1117	9.8700e-003	0.0000	58.3584

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	3.8000e-004	0.0133	3.8900e-003	5.0000e-005	1.2100e-003	2.0000e-005	1.2300e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	4.5063	4.5063	2.5000e-004	0.0000	4.5125
Worker	1.7700e-003	1.2100e-003	0.0142	5.0000e-005	5.2700e-003	4.0000e-005	5.3000e-003	1.4000e-003	3.0000e-005	1.4300e-003	0.0000	4.2578	4.2578	1.0000e-004	0.0000	4.2603
Total	2.1500e-003	0.0145	0.0181	1.0000e-004	6.4800e-003	6.0000e-005	6.5300e-003	1.7500e-003	4.0000e-005	1.7900e-003	0.0000	8.7641	8.7641	3.5000e-004	0.0000	8.7728

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3.5 Architectural Coating - 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					
Archit. Coating	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-003	0.0619	0.0860	1.4000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	12.1280	12.1280	7.3000e-004	0.0000	12.1461
Total	0.1074	0.0619	0.0860	1.4000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	12.1280	12.1280	7.3000e-004	0.0000	12.1461

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	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648
Total	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648

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3.5 Architectural Coating - 2023

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	0.0983					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.1000e-003	0.0619	0.0860	1.4000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	12.1279	12.1279	7.3000e-004	0.0000	12.1461
Total	0.1074	0.0619	0.0860	1.4000e-004		3.3600e-003	3.3600e-003		3.3600e-003	3.3600e-003	0.0000	12.1279	12.1279	7.3000e-004	0.0000	12.1461

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	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648
Total	5.3000e-004	3.6000e-004	4.2300e-003	1.0000e-005	1.5600e-003	1.0000e-005	1.5700e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.2640	1.2640	3.0000e-005	0.0000	1.2648

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive 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	0.5566	2.6975	7.3550	0.0290	2.5034	0.0207	2.5241	0.6708	0.0192	0.6900	0.0000	2,686.3377	2,686.3377	0.1227	0.0000	2,689,4046
Unmitigated	0.5566	2.6975	7.3550	0.0290	2.5034	0.0207	2.5241	0.6708	0.0192	0.6900	0.0000	2,686.3377	2,686.3377	0.1227	0.0000	2,689,4046

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Junior College (2Yr)	2,841.30	970.20	92.40	6,588,307	6,588,307
Parking Lot	0.00	0.00	0.00		
Total	2,841.30	970.20	92.40	6,588,307	6,588,307

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	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Junior College (2Yr)	16.60	8.40	6.90	6.40	88.60	5.00	92	7	1
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Junior College (2Yr)	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868
Parking Lot	0.550151	0.042593	0.202457	0.116946	0.015037	0.005825	0.021699	0.034933	0.002123	0.001780	0.004876	0.000710	0.000868

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

Kilowatt Hours of Renewable Electricity Generated

	ROG	NOx	CO	SO2	Fugitive 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	62.7306	62.7306	2.5900e-003	5.4000e-004	62.9551
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	69.5358	69.5358	2.8700e-003	5.9000e-004	69.7846
NaturalGas Mitigated	2.4500e-003	0.0223	0.0187	1.3000e-004		1.6900e-003	1.6900e-003		1.6900e-003	1.6900e-003	0.0000	24.2667	24.2667	4.7000e-004	4.4000e-004	24.4109
NaturalGas Unmitigated	2.8700e-003	0.0261	0.0219	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4371	28.4371	5.5000e-004	5.2000e-004	28.6061

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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	17613.7	9.0000e-005	8.6000e-004	7.3000e-004	1.0000e-005		7.0000e-005	7.0000e-005		7.0000e-005	7.0000e-005	0.0000	0.9399	0.9399	2.0000e-005	2.0000e-005	0.9455
Junior College (2Yr)	515278	2.7800e-003	0.0253	0.0212	1.5000e-004		1.9200e-003	1.9200e-003		1.9200e-003	1.9200e-003	0.0000	27.4972	27.4972	5.3000e-004	5.0000e-004	27.6606
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.8700e-003	0.0261	0.0220	1.6000e-004		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	28.4372	28.4372	5.5000e-004	5.2000e-004	28.6061

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	15070.6	8.0000e-005	7.4000e-004	6.2000e-004	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.8042	0.8042	2.0000e-005	1.0000e-005	0.8090
Junior College (2Yr)	439670	2.3700e-003	0.0216	0.0181	1.3000e-004		1.6400e-003	1.6400e-003		1.6400e-003	1.6400e-003	0.0000	23.4625	23.4625	4.5000e-004	4.3000e-004	23.6019
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.4500e-003	0.0223	0.0187	1.3000e-004		1.7000e-003	1.7000e-003		1.7000e-003	1.7000e-003	0.0000	24.2667	24.2667	4.7000e-004	4.4000e-004	24.4109

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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	21979.1	7.0030	2.9000e-004	6.0000e-005	7.0281
Junior College (2Yr)	190661	60.7485	2.5100e-003	5.2000e-004	60.9659
Parking Lot	5600	1.7843	7.0000e-005	2.0000e-005	1.7907
Total		69.5358	2.8700e-003	6.0000e-004	69.7846

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	19841	6.3218	2.6000e-004	5.0000e-005	6.3444
Junior College (2Yr)	172294	54.8966	2.2700e-003	4.7000e-004	55.0930
Parking Lot	4746.19	1.5122	6.0000e-005	1.0000e-005	1.5177
Total		62.7306	2.5900e-003	5.3000e-004	62.9551

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Unmitigated	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

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	9.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7800e-003	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Total	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

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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	9.8300e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0759					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7800e-003	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622
Total	0.0885	2.7000e-004	0.0300	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.0584	0.0584	1.5000e-004	0.0000	0.0622

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.1730	0.1384	3.5700e-003	45.6969
Unmitigated	51.4662	0.1730	4.4600e-003	57.1211

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	0.30037 / 0.184098	1.9931	9.8700e-003	2.5000e-004	2.3135
Junior College (2Yr)	4.94594 / 7.73596	49.4731	0.1631	4.2100e-003	54.8076
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		51.4662	0.1730	4.4600e-003	57.1211

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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	0.240296 / 0.147278	1.5945	7.8900e-003	2.0000e-004	1.8508
Junior College (2Yr)	3.95675 / 6.18877	39.5785	0.1305	3.3700e-003	43.8461
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		41.1730	0.1384	3.5700e-003	45.6968

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	42.9468	2.5381	0.0000	106.3989
Unmitigated	85.8936	5.0762	0.0000	212.7978

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	1.57	0.3187	0.0188	0.0000	0.7896
Junior College (2Yr)	421.57	85.5749	5.0573	0.0000	212.0082
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		85.8936	5.0762	0.0000	212.7978

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	0.785	0.1594	9.4200e-003	0.0000	0.3948
Junior College (2Yr)	210.785	42.7875	2.5287	0.0000	106.0041
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		42.9468	2.5381	0.0000	106.3989

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
Emergency Generator	1	0.5	12	1000	0.73	Diesel

Boilers

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

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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)	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856
Total	9.8500e-003	0.0440	0.0251	5.0000e-005		1.4500e-003	1.4500e-003		1.4500e-003	1.4500e-003	0.0000	4.5696	4.5696	6.4000e-004	0.0000	4.5856

11.0 Vegetation

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	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	13.4520	0.0000	0.0000	13.4520

11.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	19	13.4520	0.0000	0.0000	13.4520
Total		13.4520	0.0000	0.0000	13.4520