

**APPENDIX G:
GREENHOUSE GAS EMISSIONS WORKSHEETS**

SMC Malibu Campus
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Junior College (2Yr)	19.70	1000sqft	1.45	19,700.00	0
Government (Civic Center)	5.60	1000sqft	0.00	5,600.00	0
Parking Lot	189.00	Space	1.50	75,600.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	8			Operational Year	2017
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total lot area is 2.95 acres (1.45 acres bldg., landscape and hardscape) and 1.5 acres of surface parking.

Construction Phase - Custom construction schedule with projected occupancy by 2017.

Grading - Site preparation to involve removal of existing landscaping in parking areas and in landscaped quad.

Demolition -

Land Use Change -

Sequestration - 76 new trees to be planted on site per landscape plan (Figure 2.21, Planting Plan)

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Energy Mitigation -

Water Mitigation - Water conservation bathroom fixtures to be mandatory per SMC conservation strategy. Outdoor water irrigation estimated per ETWU (31.73gpd/1,000sf) and 34,354 sf of irrigated area.

Waste Mitigation - Solid Waste Recycling per SMC, LA County and City of Malibu policies.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	45.00
tblConstructionPhase	NumDays	220.00	229.00
tblConstructionPhase	NumDays	6.00	40.00
tblConstructionPhase	NumDays	10.00	15.00
tblConstructionPhase	NumDays	3.00	5.00
tblConstructionPhase	PhaseEndDate	11/27/2015	11/28/2015
tblConstructionPhase	PhaseEndDate	12/4/2015	12/6/2015
tblConstructionPhase	PhaseStartDate	12/7/2015	12/6/2015
tblGrading	AcresOfGrading	20.00	1.50
tblGrading	AcresOfGrading	7.50	1.50
tblGrading	MaterialImported	0.00	4,200.00
tblLandUse	LotAcreage	0.45	1.45
tblLandUse	LotAcreage	0.13	0.00
tblLandUse	LotAcreage	1.70	1.50
tblProjectCharacteristics	OperationalYear	2014	2017
tblSequestration	NumberOfNewTrees	0.00	76.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.0708	0.7366	0.5204	6.7000e-004	0.1416	0.0403	0.1818	0.0702	0.0374	0.1075	0.0000	62.1711	62.1711	0.0133	0.0000	62.4504
2016	0.5065	3.4841	2.7815	4.3900e-003	0.1921	0.2136	0.4058	0.0853	0.2035	0.2889	0.0000	375.2938	375.2938	0.0685	0.0000	376.7323
2017	0.3316	0.0833	0.0788	1.3000e-004	2.3000e-003	5.9700e-003	8.2700e-003	6.1000e-004	5.8000e-003	6.4200e-003	0.0000	11.1312	11.1312	1.6900e-003	0.0000	11.1667
Total	0.9089	4.3040	3.3807	5.1900e-003	0.3360	0.2599	0.5958	0.1561	0.2467	0.4028	0.0000	448.5961	448.5961	0.0835	0.0000	450.3494

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					
2015	0.0708	0.7366	0.5204	6.7000e-004	0.0678	0.0403	0.1081	0.0327	0.0374	0.0700	0.0000	62.1711	62.1711	0.0133	0.0000	62.4503
2016	0.5065	3.4841	2.7815	4.3900e-003	0.1253	0.2136	0.3389	0.0488	0.2035	0.2524	0.0000	375.2935	375.2935	0.0685	0.0000	376.7320
2017	0.3316	0.0833	0.0788	1.3000e-004	2.3000e-003	5.9700e-003	8.2700e-003	6.1000e-004	5.8000e-003	6.4200e-003	0.0000	11.1311	11.1311	1.6900e-003	0.0000	11.1667
Total	0.9089	4.3040	3.3807	5.1900e-003	0.1955	0.2599	0.4553	0.0821	0.2467	0.3288	0.0000	448.5957	448.5957	0.0835	0.0000	450.3490

	ROG	NOx	CO	SO2	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	41.83	0.00	23.58	47.39	0.00	18.37	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003
Energy	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	142.8154	142.8154	6.0400e-003	1.5300e-003	143.4167
Mobile	0.3361	1.0078	3.8600	9.2500e-003	0.6136	0.0138	0.6274	0.1644	0.0127	0.1771	0.0000	717.3579	717.3579	0.0295	0.0000	717.9764
Waste						0.0000	0.0000		0.0000	0.0000	11.6781	0.0000	11.6781	0.6902	0.0000	26.1713
Water						0.0000	0.0000		0.0000	0.0000	0.6595	14.7187	15.3782	0.0684	1.7400e-003	17.3541
Total	0.7348	1.0258	3.8779	9.3600e-003	0.6136	0.0152	0.6288	0.1644	0.0141	0.1784	12.3376	874.8972	887.2348	0.7941	3.2700e-003	904.9240

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	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003
Energy	1.6900e-003	0.0154	0.0129	9.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	120.0307	120.0307	5.0700e-003	1.2900e-003	120.5368
Mobile	0.3361	1.0078	3.8600	9.2500e-003	0.6136	0.0138	0.6274	0.1644	0.0127	0.1771	0.0000	717.3579	717.3579	0.0295	0.0000	717.9764
Waste						0.0000	0.0000		0.0000	0.0000	5.8390	0.0000	5.8390	0.3451	0.0000	13.0857
Water						0.0000	0.0000		0.0000	0.0000	0.5276	11.5599	12.0875	0.0547	1.3900e-003	13.6673
Total	0.7346	1.0232	3.8757	9.3400e-003	0.6136	0.0150	0.6286	0.1644	0.0139	0.1782	6.3666	848.9537	855.3204	0.4343	2.6800e-003	865.2718

	ROG	NOx	CO	SO2	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	0.04	0.25	0.06	0.21	0.00	1.25	0.03	0.00	1.35	0.11	48.40	2.97	3.60	45.30	18.04	4.38

2.3 Vegetation

Vegetation

	CO2e
Category	MT
New Trees	53.8080
Total	53.8080

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	11/1/2015	11/28/2015	5	20	
2	Site Preparation	Site Preparation	11/29/2015	12/6/2015	5	5	
3	Grading	Grading	12/6/2015	1/29/2016	5	40	
4	Building Construction	Building Construction	1/30/2016	12/15/2016	5	229	
5	Paving	Paving	12/16/2016	1/5/2017	5	15	
6	Architectural Coating	Architectural Coating	1/6/2017	3/9/2017	5	45	

Acres of Grading (Site Preparation Phase): 1.5

Acres of Grading (Grading Phase): 1.5

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 41,352; Non-Residential Outdoor: 13,784 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Site Preparation	Graders	1	8.00	174	0.41
Paving	Pavers	1	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	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	2	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Paving	Paving Equipment	1	8.00	130	0.36
Site Preparation	Scrapers	1	8.00	361	0.48
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	109.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	525.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	42.00	17.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

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					0.0118	0.0000	0.0118	1.7800e-003	0.0000	1.7800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	0.0307	0.2968	0.2206	2.4000e-004	0.0118	0.0187	0.0304	1.7800e-003	0.0175	0.0193	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829

3.2 Demolition - 2015

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	1.1400e-003	0.0182	0.0131	4.0000e-005	9.3000e-004	2.9000e-004	1.2200e-003	2.6000e-004	2.6000e-004	5.2000e-004	0.0000	3.7593	3.7593	3.0000e-005	0.0000	3.7599
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	6.3000e-004	9.2000e-004	9.5600e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.4381	1.4381	9.0000e-005	0.0000	1.4399
Total	1.7700e-003	0.0191	0.0227	6.0000e-005	2.3500e-003	3.0000e-004	2.6600e-003	6.4000e-004	2.7000e-004	9.1000e-004	0.0000	5.1973	5.1973	1.2000e-004	0.0000	5.1998

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					5.2900e-003	0.0000	5.2900e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0307	0.2968	0.2206	2.4000e-004		0.0187	0.0187		0.0175	0.0175	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829
Total	0.0307	0.2968	0.2206	2.4000e-004	5.2900e-003	0.0187	0.0239	8.0000e-004	0.0175	0.0183	0.0000	22.7618	22.7618	5.7700e-003	0.0000	22.8829

3.2 Demolition - 2015**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	1.1400e-003	0.0182	0.0131	4.0000e-005	9.3000e-004	2.9000e-004	1.2200e-003	2.6000e-004	2.6000e-004	5.2000e-004	0.0000	3.7593	3.7593	3.0000e-005	0.0000	3.7599
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	6.3000e-004	9.2000e-004	9.5600e-003	2.0000e-005	1.4200e-003	1.0000e-005	1.4400e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.4381	1.4381	9.0000e-005	0.0000	1.4399
Total	1.7700e-003	0.0191	0.0227	6.0000e-005	2.3500e-003	3.0000e-004	2.6600e-003	6.4000e-004	2.7000e-004	9.1000e-004	0.0000	5.1973	5.1973	1.2000e-004	0.0000	5.1998

3.3 Site Preparation - 2015**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					8.0000e-004	0.0000	8.0000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0500e-003	0.0812	0.0467	6.0000e-005		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	5.6885	5.6885	1.7000e-003	0.0000	5.7242
Total	7.0500e-003	0.0812	0.0467	6.0000e-005	8.0000e-004	3.9900e-003	4.7900e-003	9.0000e-005	3.6700e-003	3.7600e-003	0.0000	5.6885	5.6885	1.7000e-003	0.0000	5.7242

3.3 Site Preparation - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	1.4000e-004	1.4700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2212	0.2212	1.0000e-005	0.0000	0.2215
Total	1.0000e-004	1.4000e-004	1.4700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2212	0.2212	1.0000e-005	0.0000	0.2215

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					3.6000e-004	0.0000	3.6000e-004	4.0000e-005	0.0000	4.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.0500e-003	0.0812	0.0467	6.0000e-005		3.9900e-003	3.9900e-003		3.6700e-003	3.6700e-003	0.0000	5.6885	5.6885	1.7000e-003	0.0000	5.7242
Total	7.0500e-003	0.0812	0.0467	6.0000e-005	3.6000e-004	3.9900e-003	4.3500e-003	4.0000e-005	3.6700e-003	3.7100e-003	0.0000	5.6885	5.6885	1.7000e-003	0.0000	5.7242

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0000e-004	1.4000e-004	1.4700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2212	0.2212	1.0000e-005	0.0000	0.2215
Total	1.0000e-004	1.4000e-004	1.4700e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2212	0.2212	1.0000e-005	0.0000	0.2215

3.4 Grading - 2015

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					0.1215	0.0000	0.1215	0.0663	0.0000	0.0663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2970	0.1919	2.0000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	18.6508	18.6508	5.5700e-003	0.0000	18.7677
Total	0.0282	0.2970	0.1919	2.0000e-004	0.1215	0.0167	0.1381	0.0663	0.0153	0.0817	0.0000	18.6508	18.6508	5.5700e-003	0.0000	18.7677

3.4 Grading - 2015

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	2.6000e-003	0.0417	0.0301	9.0000e-005	3.9100e-003	6.5000e-004	4.5700e-003	1.0200e-003	6.0000e-004	1.6200e-003	0.0000	8.6006	8.6006	7.0000e-005	0.0000	8.6021
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	4.6000e-004	6.7000e-004	6.9800e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0509	1.0509	6.0000e-005	0.0000	1.0522
Total	3.0600e-003	0.0424	0.0371	1.0000e-004	4.9500e-003	6.6000e-004	5.6200e-003	1.3000e-003	6.1000e-004	1.9100e-003	0.0000	9.6515	9.6515	1.3000e-004	0.0000	9.6543

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					0.0547	0.0000	0.0547	0.0299	0.0000	0.0299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0282	0.2970	0.1919	2.0000e-004		0.0167	0.0167		0.0153	0.0153	0.0000	18.6508	18.6508	5.5700e-003	0.0000	18.7677
Total	0.0282	0.2970	0.1919	2.0000e-004	0.0547	0.0167	0.0713	0.0299	0.0153	0.0452	0.0000	18.6508	18.6508	5.5700e-003	0.0000	18.7677

3.4 Grading - 2015

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	2.6000e-003	0.0417	0.0301	9.0000e-005	3.9100e-003	6.5000e-004	4.5700e-003	1.0200e-003	6.0000e-004	1.6200e-003	0.0000	8.6006	8.6006	7.0000e-005	0.0000	8.6021
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	4.6000e-004	6.7000e-004	6.9800e-003	1.0000e-005	1.0400e-003	1.0000e-005	1.0500e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	1.0509	1.0509	6.0000e-005	0.0000	1.0522
Total	3.0600e-003	0.0424	0.0371	1.0000e-004	4.9500e-003	6.6000e-004	5.6200e-003	1.3000e-003	6.1000e-004	1.9100e-003	0.0000	9.6515	9.6515	1.3000e-004	0.0000	9.6543

3.4 Grading - 2016

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					0.1215	0.0000	0.1215	0.0663	0.0000	0.0663	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.3144	0.2062	2.2000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	20.3775	20.3775	6.1500e-003	0.0000	20.5066
Total	0.0300	0.3144	0.2062	2.2000e-004	0.1215	0.0175	0.1390	0.0663	0.0161	0.0824	0.0000	20.3775	20.3775	6.1500e-003	0.0000	20.5066

3.4 Grading - 2016

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	2.5200e-003	0.0407	0.0309	1.0000e-004	3.9700e-003	5.7000e-004	4.5400e-003	1.0400e-003	5.3000e-004	1.5700e-003	0.0000	9.4009	9.4009	7.0000e-005	0.0000	9.4024
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	4.6000e-004	6.7000e-004	6.9800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1227	1.1227	6.0000e-005	0.0000	1.1241
Total	2.9800e-003	0.0414	0.0378	1.1000e-004	5.1200e-003	5.8000e-004	5.7000e-003	1.3500e-003	5.4000e-004	1.8900e-003	0.0000	10.5236	10.5236	1.3000e-004	0.0000	10.5264

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					0.0547	0.0000	0.0547	0.0299	0.0000	0.0299	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0300	0.3144	0.2062	2.2000e-004		0.0175	0.0175		0.0161	0.0161	0.0000	20.3775	20.3775	6.1500e-003	0.0000	20.5066
Total	0.0300	0.3144	0.2062	2.2000e-004	0.0547	0.0175	0.0722	0.0299	0.0161	0.0460	0.0000	20.3775	20.3775	6.1500e-003	0.0000	20.5066

3.4 Grading - 2016

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	2.5200e-003	0.0407	0.0309	1.0000e-004	3.9700e-003	5.7000e-004	4.5400e-003	1.0400e-003	5.3000e-004	1.5700e-003	0.0000	9.4009	9.4009	7.0000e-005	0.0000	9.4024
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	4.6000e-004	6.7000e-004	6.9800e-003	1.0000e-005	1.1500e-003	1.0000e-005	1.1600e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1227	1.1227	6.0000e-005	0.0000	1.1241
Total	2.9800e-003	0.0414	0.0378	1.1000e-004	5.1200e-003	5.8000e-004	5.7000e-003	1.3500e-003	5.4000e-004	1.8900e-003	0.0000	10.5236	10.5236	1.3000e-004	0.0000	10.5264

3.5 Building Construction - 2016

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	0.4235	2.8204	1.9141	2.8500e-003		0.1862	0.1862		0.1783	0.1783	0.0000	244.3317	244.3317	0.0563	0.0000	245.5140
Total	0.4235	2.8204	1.9141	2.8500e-003		0.1862	0.1862		0.1783	0.1783	0.0000	244.3317	244.3317	0.0563	0.0000	245.5140

3.5 Building Construction - 2016

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	0.0175	0.1781	0.2313	4.3000e-004	0.0119	2.6700e-003	0.0146	3.4000e-003	2.4600e-003	5.8600e-003	0.0000	38.7517	38.7517	2.9000e-004	0.0000	38.7578
Worker	0.0210	0.0307	0.3199	6.7000e-004	0.0527	5.1000e-004	0.0532	0.0140	4.7000e-004	0.0145	0.0000	51.4216	51.4216	2.9200e-003	0.0000	51.4829
Total	0.0385	0.2088	0.5512	1.1000e-003	0.0646	3.1800e-003	0.0678	0.0174	2.9300e-003	0.0203	0.0000	90.1734	90.1734	3.2100e-003	0.0000	90.2407

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	0.4235	2.8204	1.9141	2.8500e-003		0.1862	0.1862		0.1783	0.1783	0.0000	244.3314	244.3314	0.0563	0.0000	245.5137
Total	0.4235	2.8204	1.9141	2.8500e-003		0.1862	0.1862		0.1783	0.1783	0.0000	244.3314	244.3314	0.0563	0.0000	245.5137

3.5 Building Construction - 2016

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	0.0175	0.1781	0.2313	4.3000e-004	0.0119	2.6700e-003	0.0146	3.4000e-003	2.4600e-003	5.8600e-003	0.0000	38.7517	38.7517	2.9000e-004	0.0000	38.7578
Worker	0.0210	0.0307	0.3199	6.7000e-004	0.0527	5.1000e-004	0.0532	0.0140	4.7000e-004	0.0145	0.0000	51.4216	51.4216	2.9200e-003	0.0000	51.4829
Total	0.0385	0.2088	0.5512	1.1000e-003	0.0646	3.1800e-003	0.0678	0.0174	2.9300e-003	0.0203	0.0000	90.1734	90.1734	3.2100e-003	0.0000	90.2407

3.6 Paving - 2016

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	9.8000e-003	0.0986	0.0668	1.0000e-004		6.1900e-003	6.1900e-003		5.7000e-003	5.7000e-003	0.0000	9.0054	9.0054	2.6700e-003	0.0000	9.0614
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0112	0.0986	0.0668	1.0000e-004		6.1900e-003	6.1900e-003		5.7000e-003	5.7000e-003	0.0000	9.0054	9.0054	2.6700e-003	0.0000	9.0614

3.6 Paving - 2016**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	3.6000e-004	5.3000e-004	5.4900e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8822	0.8822	5.0000e-005	0.0000	0.8832
Total	3.6000e-004	5.3000e-004	5.4900e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8822	0.8822	5.0000e-005	0.0000	0.8832

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	9.8000e-003	0.0986	0.0668	1.0000e-004		6.1900e-003	6.1900e-003		5.7000e-003	5.7000e-003	0.0000	9.0054	9.0054	2.6700e-003	0.0000	9.0614
Paving	1.4400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0112	0.0986	0.0668	1.0000e-004		6.1900e-003	6.1900e-003		5.7000e-003	5.7000e-003	0.0000	9.0054	9.0054	2.6700e-003	0.0000	9.0614

3.6 Paving - 2016

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	3.6000e-004	5.3000e-004	5.4900e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8822	0.8822	5.0000e-005	0.0000	0.8832
Total	3.6000e-004	5.3000e-004	5.4900e-003	1.0000e-005	9.0000e-004	1.0000e-005	9.1000e-004	2.4000e-004	1.0000e-005	2.5000e-004	0.0000	0.8822	0.8822	5.0000e-005	0.0000	0.8832

3.6 Paving - 2017

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	3.2800e-003	0.0329	0.0241	4.0000e-005		2.0500e-003	2.0500e-003		1.8800e-003	1.8800e-003	0.0000	3.2250	3.2250	9.7000e-004	0.0000	3.2454
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0329	0.0241	4.0000e-005		2.0500e-003	2.0500e-003		1.8800e-003	1.8800e-003	0.0000	3.2250	3.2250	9.7000e-004	0.0000	3.2454

3.6 Paving - 2017

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	1.2000e-004	1.7000e-004	1.8000e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3088	0.3088	2.0000e-005	0.0000	0.3091
Total	1.2000e-004	1.7000e-004	1.8000e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3088	0.3088	2.0000e-005	0.0000	0.3091

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	3.2800e-003	0.0329	0.0241	4.0000e-005		2.0500e-003	2.0500e-003		1.8800e-003	1.8800e-003	0.0000	3.2250	3.2250	9.7000e-004	0.0000	3.2454
Paving	5.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	3.8000e-003	0.0329	0.0241	4.0000e-005		2.0500e-003	2.0500e-003		1.8800e-003	1.8800e-003	0.0000	3.2250	3.2250	9.7000e-004	0.0000	3.2454

3.6 Paving - 2017

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	1.2000e-004	1.7000e-004	1.8000e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3088	0.3088	2.0000e-005	0.0000	0.3091
Total	1.2000e-004	1.7000e-004	1.8000e-003	0.0000	3.3000e-004	0.0000	3.3000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.3088	0.3088	2.0000e-005	0.0000	0.3091

3.7 Architectural Coating - 2017

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	0.3194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4800e-003	0.0492	0.0420	7.0000e-005		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	5.7448	5.7448	6.1000e-004	0.0000	5.7576
Total	0.3269	0.0492	0.0420	7.0000e-005		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	5.7448	5.7448	6.1000e-004	0.0000	5.7576

3.7 Architectural Coating - 2017

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	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	0.0000
Worker	7.0000e-004	1.0400e-003	0.0108	3.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8526	1.8526	1.0000e-004	0.0000	1.8547	
Total	7.0000e-004	1.0400e-003	0.0108	3.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8526	1.8526	1.0000e-004	0.0000	1.8547	

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	0.3194					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	7.4800e-003	0.0492	0.0420	7.0000e-005		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	5.7448	5.7448	6.1000e-004	0.0000	5.7576
Total	0.3269	0.0492	0.0420	7.0000e-005		3.9000e-003	3.9000e-003		3.9000e-003	3.9000e-003	0.0000	5.7448	5.7448	6.1000e-004	0.0000	5.7576

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.0000e-004	1.0400e-003	0.0108	3.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8526	1.8526	1.0000e-004	0.0000	1.8547
Total	7.0000e-004	1.0400e-003	0.0108	3.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8526	1.8526	1.0000e-004	0.0000	1.8547

4.0 Operational Detail - Mobile

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	0.3361	1.0078	3.8600	9.2500e-003	0.6136	0.0138	0.6274	0.1644	0.0127	0.1771	0.0000	717.3579	717.3579	0.0295	0.0000	717.9764
Unmitigated	0.3361	1.0078	3.8600	9.2500e-003	0.6136	0.0138	0.6274	0.1644	0.0127	0.1771	0.0000	717.3579	717.3579	0.0295	0.0000	717.9764

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government (Civic Center)	156.35	0.00	0.00	344,882	344,882
Junior College (2Yr)	541.55	221.23	23.84	1,274,088	1,274,088
Parking Lot	0.00	0.00	0.00		
Total	697.91	221.23	23.84	1,618,970	1,618,970

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
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
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

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.532559	0.058242	0.178229	0.125155	0.038934	0.006273	0.016761	0.032323	0.002478	0.003154	0.003685	0.000544	0.001663

5.0 Energy Detail

5.1 Fleet Mix

Historical Energy Use: N

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	103.2712	103.2712	4.7500e-003	9.8000e-004	103.6754
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	123.2764	123.2764	5.6700e-003	1.1700e-003	123.7589
NaturalGas Mitigated	1.6900e-003	0.0154	0.0129	9.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	16.7595	16.7595	3.2000e-004	3.1000e-004	16.8614
NaturalGas Unmitigated	1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5389	19.5389	3.7000e-004	3.6000e-004	19.6579

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)	312442	1.6800e-003	0.0153	0.0129	9.0000e-005		1.1600e-003	1.1600e-003		1.1600e-003	1.1600e-003	0.0000	16.6731	16.6731	3.2000e-004	3.1000e-004	16.7746
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
Government (Civic Center)	53704	2.9000e-004	2.6300e-003	2.2100e-003	2.0000e-005		2.0000e-004	2.0000e-004		2.0000e-004	2.0000e-004	0.0000	2.8659	2.8659	5.0000e-005	5.0000e-005	2.8833
Total		1.9700e-003	0.0180	0.0151	1.1000e-004		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	19.5389	19.5389	3.7000e-004	3.6000e-004	19.6579

5.2 Energy by Land Use - NaturalGas

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)	270481	1.4600e-003	0.0133	0.0111	8.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.0000	14.4339	14.4339	2.8000e-004	2.6000e-004	14.5217
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
Government (Civic Center)	43579.2	2.3000e-004	2.1400e-003	1.7900e-003	1.0000e-005		1.6000e-004	1.6000e-004		1.6000e-004	1.6000e-004	0.0000	2.3256	2.3256	4.0000e-005	4.0000e-005	2.3397
Total		1.6900e-003	0.0154	0.0129	9.0000e-005		1.1700e-003	1.1700e-003		1.1700e-003	1.1700e-003	0.0000	16.7595	16.7595	3.2000e-004	3.0000e-004	16.8614

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	87472	25.0316	1.1500e-003	2.4000e-004	25.1296
Junior College (2Yr)	276785	79.2067	3.6400e-003	7.5000e-004	79.5167
Parking Lot	66528	19.0381	8.8000e-004	1.8000e-004	19.1126
Total		123.2764	5.6700e-003	1.1700e-003	123.7589

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government (Civic Center)	75510.4	21.6086	9.9000e-004	2.1000e-004	21.6931
Junior College (2Yr)	232145	66.4322	3.0500e-003	6.3000e-004	66.6921
Parking Lot	53222.4	15.2305	7.0000e-004	1.4000e-004	15.2901
Total		103.2712	4.7400e-003	9.8000e-004	103.6754

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003
Unmitigated	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003

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	0.0319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003
Total	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0319					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3646					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.7000e-004	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003
Total	0.3968	3.0000e-005	2.7900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3200e-003	5.3200e-003	1.0000e-005	0.0000	5.6300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Toilet

Use Water Efficient Landscaping

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	12.0875	0.0547	1.3900e-003	13.6673
Unmitigated	15.3782	0.0684	1.7400e-003	17.3541

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	1.11249 / 0.681851	6.6661	0.0365	9.2000e-004	7.7174
Junior College (2Yr)	0.966266 / 1.51134	8.7121	0.0319	8.2000e-004	9.6366
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		15.3782	0.0684	1.7400e-003	17.3541

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government (Civic Center)	0.889995 / 0.545481	5.2178	0.0292	7.3000e-004	6.0584
Junior College (2Yr)	0.773013 / 1.20907	6.8697	0.0255	6.6000e-004	7.6089
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		12.0875	0.0547	1.3900e-003	13.6673

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	5.8390	0.3451	0.0000	13.0857
Unmitigated	11.6781	0.6902	0.0000	26.1713

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	31.92	6.4795	0.3829	0.0000	14.5209
Junior College (2Yr)	25.61	5.1986	0.3072	0.0000	11.6504
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.6781	0.6902	0.0000	26.1713

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government (Civic Center)	15.96	3.2397	0.1915	0.0000	7.2605
Junior College (2Yr)	12.805	2.5993	0.1536	0.0000	5.8252
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		5.8390	0.3451	0.0000	13.0857

9.0 Operational Offroad

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	53.8080	0.0000	0.0000	53.8080

10.2 Net New Trees

Species Class

	Number of Trees	Total CO2	CH4	N2O	CO2e
		MT			
Miscellaneous	76	53.8080	0.0000	0.0000	53.8080
Total		53.8080	0.0000	0.0000	53.8080