

Appendix A

CalEEMod (version 2020.4.0) results for the Cole Administration Education Building Project

Lamphier-Gregory, April 2022

Cole Admin Bldg with Remed - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**Cole Admin Bldg with Remed
Alameda County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Government Office Building	27.30	1000sqft	0.63	27,300.00	0
Junior College (2yr)	28.60	1000sqft	0.66	28,600.00	0
Parking Lot	93.00	Space	0.84	37,200.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	63
Climate Zone	5			Operational Year	2024
Utility Company	Pacific Gas and Electric Company				
CO2 Intensity (lb/MWahr)	203.98	CH4 Intensity (lb/MWahr)	0.033	N2O Intensity (lb/MWahr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use -

Construction Phase - Remediation I assumes 9,160 CY export, at 8 CY/haul = 1,145 haul trips, at 60 haul trips per day = 19 days
 Grading I assumes 9,160 CY import, ay 8 CY/haul = 1,145 haul trips, at 60 haul trips per day = 19 days
 Remediation II assumes 2,560 CY export, at 8 CY/haul = 300 haul trips, at 60 haul trips per day = 5 days
 Grading II assumes 4,860 CY import, at 8CY/haul = 608 haul trips, at 60 haul trips per day = 10 days
 Trips and VMT - haul length for export of contaminated soils is estimated at 200 miles to licensed facility

Demolition -

Grading - 2.6 acre site

1.6 ac in Phase I

1.0 ac in Phase II

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblConstructionPhase	NumDays	3.00	19.00
tblConstructionPhase	NumDays	6.00	19.00
tblConstructionPhase	NumDays	6.00	5.00
tblConstructionPhase	NumDays	6.00	10.00
tblGrading	AcresOfGrading	19.00	1.60
tblGrading	AcresOfGrading	5.00	0.00
tblGrading	AcresOfGrading	10.00	1.00
tblGrading	AcresOfGrading	28.50	0.00
tblGrading	MaterialExported	0.00	2,560.00
tblGrading	MaterialExported	0.00	9,160.00
tblGrading	MaterialImported	0.00	9,160.00
tblGrading	MaterialImported	0.00	4,860.00
tblTripsAndVMT	HaulingTripLength	20.00	200.00
tblTripsAndVMT	HaulingTripLength	20.00	200.00

Cole Admin Bldg with Remed - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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					
2022	0.1825	2.3211			0.1933	0.0714	0.2647	0.0681	0.0677	0.1358			582.5382			602.2320
2023	0.4306	1.2998			0.1245	0.0489	0.1734	0.0438	0.0464	0.0902			296.2080			303.2412
Maximum	0.4306	2.3211			0.1933	0.0714	0.2647	0.0681	0.0677	0.1358			582.5382			602.2320

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1825	2.3211			0.1933	0.0714	0.2647	0.0681	0.0677	0.1358			582.5380			602.2318
2023	0.4306	1.2998			0.1245	0.0489	0.1734	0.0438	0.0464	0.0902			296.2078			303.2410
Maximum	0.4306	2.3211			0.1933	0.0714	0.2647	0.0681	0.0677	0.1358			582.5380			602.2318

	ROG	NOx	CO	SO2	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	6-15-2022	9-14-2022	1.8088	1.8088
2	9-15-2022	12-14-2022	0.5689	0.5689
3	12-15-2022	3-14-2023	0.5286	0.5286
4	3-15-2023	6-14-2023	1.2910	1.2910
		Highest	1.8088	1.8088

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	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003
Energy	8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			137.0718			138.1132
Mobile	0.3569	0.4343			0.7139	5.1600e-003	0.7191	0.1907	4.8100e-003	0.1955			638.4986			649.5419
Waste						0.0000	0.0000		0.0000	0.0000			12.7011			31.4666
Water						0.0000	0.0000		0.0000	0.0000			7.3701			14.5475
Total	0.6157	0.5074			0.7139	0.0107	0.7246	0.1907	0.0104	0.2011			795.6442			833.6720

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003
Energy	8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			137.0718			138.1132
Mobile	0.3454	0.4101			0.6580	4.8000e-003	0.6628	0.1758	4.4700e-003	0.1802			590.2949			600.7252
Waste						0.0000	0.0000		0.0000	0.0000			12.7011			31.4666
Water						0.0000	0.0000		0.0000	0.0000			7.3701			14.5475
Total	0.6042	0.4832			0.6580	0.0104	0.6683	0.1758	0.0100	0.1858			747.4405			784.8552

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	1.86	4.78	0.00	0.00	7.84	3.36	7.77	7.84	3.28	7.60	0.00	0.00	6.06	0.00	0.00	5.86

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	demo I	Demolition	6/15/2022	7/12/2022	5	20	
2	remediation I	Site Preparation	7/13/2022	8/8/2022	5	19	
3	grading I	Grading	7/16/2022	8/11/2022	5	19	
4	Building Construction	Building Construction	7/26/2022	5/29/2023	5	220	
5	demo II	Demolition	4/3/2023	4/28/2023	5	20	
6	remediation II	Grading	4/29/2023	5/5/2023	5	5	
7	grading II	Grading	5/9/2023	5/22/2023	5	10	
8	Paving	Paving	5/23/2023	6/5/2023	5	10	
9	Architectural Coating	Architectural Coating	5/30/2023	6/12/2023	5	10	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 1.6

Acres of Paving: 0.84

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 83,850; Non-Residential Outdoor: 27,950; Striped Parking Area: 2,232 (Architectural

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
demo I	Concrete/Industrial Saws	1	8.00	81	0.73
demo I	Rubber Tired Dozers	1	8.00	247	0.40
demo I	Tractors/Loaders/Backhoes	3	8.00	97	0.37
remediation I	Graders	1	8.00	187	0.41
remediation I	Scrapers	1	8.00	367	0.48
remediation I	Tractors/Loaders/Backhoes	1	7.00	97	0.37
grading I	Graders	1	8.00	187	0.41
grading I	Rubber Tired Dozers	1	8.00	247	0.40
grading I	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48
demo II	Concrete/Industrial Saws	1	8.00	81	0.73
demo II	Rubber Tired Dozers	1	8.00	247	0.40
demo II	Tractors/Loaders/Backhoes	3	8.00	97	0.37
remediation II	Graders	1	8.00	187	0.41
remediation II	Rubber Tired Dozers	1	8.00	247	0.40
remediation II	Tractors/Loaders/Backhoes	2	7.00	97	0.37
grading II	Graders	1	8.00	187	0.41
grading II	Rubber Tired Dozers	1	8.00	247	0.40
grading II	Tractors/Loaders/Backhoes	2	7.00	97	0.37

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
demo I	5	13.00	0.00	29.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
remediation I	3	8.00	0.00	1,145.00	10.80	7.30	200.00	LD_Mix	HDT_Mix	HHDT
grading I	4	10.00	0.00	1,145.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	36.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
demo II	5	13.00	0.00	200.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
remediation II	4	10.00	0.00	320.00	10.80	7.30	200.00	LD_Mix	HDT_Mix	HHDT
grading II	4	10.00	0.00	608.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction

3.2 demo I - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004			0.0000			0.0000
Off-Road	0.0169	0.1662				8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003			21.0777			21.2120
Total	0.0169	0.1662			3.1500e-003	8.38E-03	0.0115	4.8000e-004	7.83E-03	8.31E-03			21.0777			21.2120

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	7.0000e-005	2.4200e-003			2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005			0.8877			0.9300
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	3.7000e-004	2.6000e-004			1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004			0.8315			0.8394
Total	4.40E-04	2.68E-03			1.2800e-003	3.00E-05	1.30E-03	3.40E-04	3.0000e-005	3.70E-04			1.7192			1.7694

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					3.1500e-003	0.0000	3.1500e-003	4.8000e-004	0.0000	4.8000e-004			0.0000			0.0000
Off-Road	0.0169	0.1662				8.3800e-003	8.3800e-003		7.8300e-003	7.8300e-003			21.0777			21.2119
Total	0.0169	0.1662			3.1500e-003	8.3800e-003	0.0115	4.8000e-004	7.8300e-003	8.3100e-003			21.0777			21.2119

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	7.0000e-005	2.4200e-003			2.5000e-004	2.0000e-005	2.7000e-004	7.0000e-005	2.0000e-005	9.0000e-005			0.8877			0.9300
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	3.7000e-004	2.6000e-004			1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	1.0000e-005	2.8000e-004			0.8315			0.8394
Total	4.4000e-004	2.6800e-003			1.2800e-003	3.0000e-005	1.3000e-003	3.4000e-004	3.0000e-005	3.7000e-004			1.7192			1.7694

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 remediation I - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.2000e-004	0.0000	5.2000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.0131	0.1488				5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003			20.4697			20.6352
Total	0.0131	0.1488			5.2000e-004	5.65E-03	6.17E-03	8.0000e-005	5.20E-03	5.28E-03			20.4697			20.6352

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	0.0211	0.8626			0.0969	8.7600e-003	0.1057	0.0267	8.3800e-003	0.0350			337.1646			353.2174
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.1000e-004	1.5000e-004			6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004			0.4861			0.4907
Total	0.0213	0.8627			0.0975	8.76E-03	0.1063	0.0268	8.38E-03	0.0352			337.6507			353.7081

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					5.2000e-004	0.0000	5.2000e-004	8.0000e-005	0.0000	8.0000e-005			0.0000			0.0000
Off-Road	0.0131	0.1488				5.6500e-003	5.6500e-003		5.2000e-003	5.2000e-003			20.4697			20.6352
Total	0.0131	0.1488			5.2000e-004	5.6500e-003	6.1700e-003	8.0000e-005	5.2000e-003	5.2800e-003			20.4697			20.6352

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	0.0211	0.8626			0.0969	8.7600e-003	0.1057	0.0267	8.3800e-003	0.0350			337.1646			353.2174
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.1000e-004	1.5000e-004			6.0000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004			0.4861			0.4907
Total	0.0213	0.8627			0.0975	8.7600e-003	0.1063	0.0268	8.3800e-003	0.0352			337.6507			353.7081

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 grading I - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0586	0.0000	0.0586	0.0316	0.0000	0.0316			0.0000			0.0000
Off-Road	0.0146	0.1613				7.0500e-003	7.0500e-003		6.4900e-003	6.4900e-003			17.1976			17.3366
Total	0.0146	0.1613			0.0586	7.05E-03	0.0656	0.0316	6.49E-03	0.0381			17.1976			17.3366

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	2.6300e-003	0.0957			9.7000e-003	8.8000e-004	0.0106	2.6700e-003	8.5000e-004	3.5100e-003			35.0504			36.7190
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.7000e-004	1.9000e-004			7.5000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.0000e-004			0.6076			0.6134
Total	2.90E-03	0.0959			0.0105	8.80E-04	0.0113	2.8700e-003	8.50E-04	3.71E-03			35.6580			37.3324

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					0.0586	0.0000	0.0586	0.0316	0.0000	0.0316			0.0000			0.0000
Off-Road	0.0146	0.1613				7.0500e-003	7.0500e-003		6.4900e-003	6.4900e-003			17.1976			17.3366
Total	0.0146	0.1613			0.0586	7.0500e-003	0.0656	0.0316	6.4900e-003	0.0381			17.1976			17.3366

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	2.6300e-003	0.0957			9.7000e-003	8.8000e-004	0.0106	2.6700e-003	8.5000e-004	3.5100e-003			35.0504			36.7190
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.7000e-004	1.9000e-004			7.5000e-004	0.0000	7.6000e-004	2.0000e-004	0.0000	2.0000e-004			0.6076			0.6134
Total	2.9000e-003	0.0959			0.0105	8.8000e-004	0.0113	2.8700e-003	8.5000e-004	3.7100e-003			35.6580			37.3324

Cole Admin Bldg with Remed - Alameda County, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 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	0.1058	0.8324				0.0400	0.0400		0.0384	0.0384			118.3777			118.9486
Total	0.1058	0.8324				0.04	0.0400		0.0384	0.0384			118.3777			118.9486

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
Vendor	1.7400e-003	0.0468			5.6200e-003	4.8000e-004	6.0900e-003	1.6200e-003	4.5000e-004	2.0800e-003			17.2627			18.0402
Worker	5.7700e-003	4.1500e-003			0.0162	9.0000e-005	0.0163	4.3200e-003	8.0000e-005	4.4000e-003			13.1250			13.2494
Total	7.51E-03	0.051			0.0218	5.70E-04	0.0224	5.9400e-003	5.30E-04	6.48E-03			30.3876			31.2897

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	0.1058	0.8324				0.0400	0.0400		0.0384	0.0384			118.3775			118.9485
Total	0.1058	0.8324				0.0400	0.0400		0.0384	0.0384			118.3775			118.9485

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
Vendor	1.7400e-003	0.0468			5.6200e-003	4.8000e-004	6.0900e-003	1.6200e-003	4.5000e-004	2.0800e-003			17.2627			18.0402
Worker	5.7700e-003	4.1500e-003			0.0162	9.0000e-005	0.0163	4.3200e-003	8.0000e-005	4.4000e-003			13.1250			13.2494
Total	7.5100e-003	0.0510			0.0218	5.7000e-004	0.0224	5.9400e-003	5.3000e-004	6.4800e-003			30.3876			31.2897

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 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	0.0908	0.7221				0.0325	0.0325		0.0312	0.0312			110.0821			110.6026
Total	0.0908	0.7221				0.0325	0.0325		0.0312	0.0312			110.0821			110.6026

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
Vendor	8.0000e-004	0.0348			5.2200e-003	2.1000e-004	5.4300e-003	1.5100e-003	2.0000e-004	1.7100e-003			15.3787			16.0702
Worker	4.9900e-003	3.4200e-003			0.0151	8.0000e-005	0.0152	4.0100e-003	7.0000e-005	4.0900e-003			11.8937			12.0008
Total	5.79E-03	0.0382			0.0203	2.90E-04	0.0206	5.5200e-003	2.70E-04	5.80E-03			27.2724			28.0709

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	0.0908	0.7221				0.0325	0.0325		0.0312	0.0312			110.0820			110.6024
Total	0.0908	0.7221				0.0325	0.0325		0.0312	0.0312			110.0820			110.6024

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
Vendor	8.0000e-004	0.0348			5.2200e-003	2.1000e-004	5.4300e-003	1.5100e-003	2.0000e-004	1.7100e-003			15.3787			16.0702
Worker	4.9900e-003	3.4200e-003			0.0151	8.0000e-005	0.0152	4.0100e-003	7.0000e-005	4.0900e-003			11.8937			12.0008
Total	5.7900e-003	0.0382			0.0203	2.9000e-004	0.0206	5.5200e-003	2.7000e-004	5.8000e-003			27.2724			28.0709

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 demo II - 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					
Fugitive Dust					0.0217	0.0000	0.0217	3.2800e-003	0.0000	3.2800e-003			0.0000			0.0000
Off-Road	0.0147	0.1432				6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003			21.0866			21.2202
Total	0.0147	0.1432			0.0217	6.77E-03	0.0284	3.2800e-003	6.33E-03	9.61E-03			21.0866			21.2202

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	2.1000e-004	0.0131			1.6900e-003	1.1000e-004	1.8100e-003	4.7000e-004	1.1000e-004	5.7000e-004			5.8270			6.1044
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	3.4000e-004	2.3000e-004			1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	0.0000	2.8000e-004			0.8104			0.8177
Total	5.50E-04	0.0134			2.7200e-003	1.20E-04	2.84E-03	7.4000e-004	1.10E-04	8.50E-04			6.6373			6.9220

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					0.0217	0.0000	0.0217	3.2800e-003	0.0000	3.2800e-003			0.0000			0.0000
Off-Road	0.0147	0.1432				6.7700e-003	6.7700e-003		6.3300e-003	6.3300e-003			21.0865			21.2202
Total	0.0147	0.1432			0.0217	6.7700e-003	0.0284	3.2800e-003	6.3300e-003	9.6100e-003			21.0865			21.2202

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	2.1000e-004	0.0131			1.6900e-003	1.1000e-004	1.8100e-003	4.7000e-004	1.1000e-004	5.7000e-004			5.8270			6.1044
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	3.4000e-004	2.3000e-004			1.0300e-003	1.0000e-005	1.0300e-003	2.7000e-004	0.0000	2.8000e-004			0.8104			0.8177
Total	5.5000e-004	0.0134			2.7200e-003	1.2000e-004	2.8400e-003	7.4000e-004	1.1000e-004	8.5000e-004			6.6373			6.9220

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.7 remediation II - 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					
Fugitive Dust					0.0152	0.0000	0.0152	8.3000e-003	0.0000	8.3000e-003			0.0000			0.0000
Off-Road	3.3300e-003	0.0362				1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003			4.5260			4.5626
Total	3.33E-03	0.0362			0.0152	1.51E-03	0.0167	8.3000e-003	1.39E-03	9.69E-03			4.5260			4.5626

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	1.8600e-003	0.1847			0.0271	1.7800e-003	0.0289	7.4500e-003	1.7000e-003	9.1500e-003			89.6516			93.9204
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	7.0000e-005	4.0000e-005			2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005			0.1558			0.1572
Total	1.93E-03	0.1847			0.0273	1.78E-03	0.0291	7.5000e-003	1.70E-03	9.20E-03			89.8074			94.0777

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					0.0152	0.0000	0.0152	8.3000e-003	0.0000	8.3000e-003			0.0000			0.0000
Off-Road	3.3300e-003	0.0362				1.5100e-003	1.5100e-003		1.3900e-003	1.3900e-003			4.5260			4.5626
Total	3.3300e-003	0.0362			0.0152	1.5100e-003	0.0167	8.3000e-003	1.3900e-003	9.6900e-003			4.5260			4.5626

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	1.8600e-003	0.1847			0.0271	1.7800e-003	0.0289	7.4500e-003	1.7000e-003	9.1500e-003			89.6516			93.9204
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	7.0000e-005	4.0000e-005			2.0000e-004	0.0000	2.0000e-004	5.0000e-005	0.0000	5.0000e-005			0.1558			0.1572
Total	1.9300e-003	0.1847			0.0273	1.7800e-003	0.0291	7.5000e-003	1.7000e-003	9.2000e-003			89.8074			94.0777

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.8 grading II - 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					
Fugitive Dust					0.0309	0.0000	0.0309	0.0167	0.0000	0.0167			0.0000			0.0000
Off-Road	6.6700e-003	0.0723				3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003			9.0520			9.1252
Total	6.67E-03	0.0723			0.0309	3.02E-03	0.0339	0.0167	2.78E-03	0.0194			9.0520			9.1252

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	6.3000e-004	0.0399			5.1500e-003	3.4000e-004	5.4900e-003	1.4200e-003	3.3000e-004	1.7400e-003			17.7139			18.5573
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	1.3000e-004	9.0000e-005			4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004			0.3117			0.3145
Total	7.60E-04	0.04			5.5500e-003	3.40E-04	5.89E-03	1.5300e-003	3.30E-04	1.85E-03			18.0256			18.8718

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					0.0309	0.0000	0.0309	0.0167	0.0000	0.0167			0.0000			0.0000
Off-Road	6.6700e-003	0.0723				3.0200e-003	3.0200e-003		2.7800e-003	2.7800e-003			9.0520			9.1251
Total	6.6700e-003	0.0723			0.0309	3.0200e-003	0.0339	0.0167	2.7800e-003	0.0194			9.0520			9.1251

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	6.3000e-004	0.0399			5.1500e-003	3.4000e-004	5.4900e-003	1.4200e-003	3.3000e-004	1.7400e-003			17.7139			18.5573
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	1.3000e-004	9.0000e-005			4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004			0.3117			0.3145
Total	7.6000e-004	0.0400			5.5500e-003	3.4000e-004	5.89E-03	1.5300e-003	3.3000e-004	1.85E-03			18.0256			18.8718

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.9 Paving - 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	4.4000e-003	0.0431				2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003			7.7564			7.8179
Paving	1.1000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.50E-03	0.0431				2.17E-03	2.17E-03		2.00E-03	2.00E-03			7.7564			7.8179

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
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.0000e-004	1.3000e-004			5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004			0.4675			0.4717
Total	2.00E-04	1.30E-04			5.9000e-004	0.0000	6.00E-04	1.6000e-004	0.0000	1.60E-04			0.4675			0.4717

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	4.4000e-003	0.0431				2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003			7.7564			7.8178
Paving	1.1000e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	5.5000e-003	0.0431				2.1700e-003	2.1700e-003		2.0000e-003	2.0000e-003			7.7564			7.8178

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
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	2.0000e-004	1.3000e-004			5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004			0.4675			0.4717
Total	2.0000e-004	1.3000e-004			5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004			0.4675			0.4717

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.10 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	0.2992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	9.6000e-004	6.5100e-003				3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004			1.2766			1.2785
Total	0.3002	6.51E-03				3.50E-04	3.50E-04		3.50E-04	3.50E-04			1.2766			1.2785

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
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	9.0000e-005	6.0000e-005			2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005			0.2182			0.2201
Total	9.00E-05	6.00E-05			2.8000e-004	0.0000	2.80E-04	7.0000e-005	0.0000	7.00E-05			0.2182			0.2201

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	0.2992					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	9.6000e-004	6.5100e-003				3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004			1.2766			1.2785
Total	0.3002	6.5100e-003				3.5000e-004	3.5000e-004		3.5000e-004	3.5000e-004			1.2766			1.2785

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
Vendor	0.0000	0.0000			0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Worker	9.0000e-005	6.0000e-005			2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005			0.2182			0.2201
Total	9.0000e-005	6.0000e-005			2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	7.0000e-005			0.2182			0.2201

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Increase Transit Accessibility

	ROG	NOx	CO	SO2	Fugitive 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	0.3454	0.4101			0.6580	4.8000e-003	0.6628	0.1758	4.4700e-003	0.1802			590.2949			600.7252
Unmitigated	0.3569	0.4343			0.7139	5.1600e-003	0.7191	0.1907	4.8100e-003	0.1955			638.4986			649.5419

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Government Office Building	616.71	0.00	0.00	755,413	696,197
Junior College (2yr)	579.15	321.18	34.61	1,179,627	1,087,156
Parking Lot	0.00	0.00	0.00		
Total	1,195.86	321.18	34.61	1,935,041	1,783,353

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 Office Building	9.50	7.30	7.30	33.00	62.00	5.00	50	34	16
Junior College (2yr)	9.50	7.30	7.30	6.40	88.60	5.00	92	7	1
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Government Office Building	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Junior College (2yr)	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451
Parking Lot	0.569946	0.056495	0.180011	0.112201	0.020944	0.005169	0.013608	0.012941	0.000792	0.000570	0.024535	0.000337	0.002451

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			57.4961			58.0647
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			57.4961			58.0647
NaturalGas Mitigated	8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			79.5756			80.0485
NaturalGas Unmitigated	8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			79.5756			80.0485

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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					
Government Office Building	522795	2.8200e-003	0.0256				1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003			27.8983			28.0641
Junior College (2yr)	968396	5.2200e-003	0.0475				3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003			51.6773			51.9844
Parking Lot	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total		8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			79.5756			80.0485

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					
Government Office Building	522795	2.8200e-003	0.0256				1.9500e-003	1.9500e-003		1.9500e-003	1.9500e-003			27.8983			28.0641
Junior College (2yr)	968396	5.2200e-003	0.0475				3.6100e-003	3.6100e-003		3.6100e-003	3.6100e-003			51.6773			51.9844
Parking Lot	0	0.0000	0.0000				0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total		8.0400e-003	0.0731				5.5600e-003	5.5600e-003		5.5600e-003	5.5600e-003			79.5756			80.0485

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	328692	30.4118			30.7125
Junior College (2yr)	279708	25.8796			26.1355
Parking Lot	13020	1.2047			1.2166
Total		57.4961			58.0647

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Government Office Building	328692	30.4118			30.7125
Junior College (2yr)	279708	25.8796			26.1355
Parking Lot	13020	1.2047			1.2166
Total		57.4961			58.0647

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6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

No Hearths Installed

	ROG	NOx	CO	SO2	Fugitive 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	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003
Unmitigated	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-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	0.0299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003
Total	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-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	0.0299					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.2207					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.3000e-004	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003
Total	0.2508	1.0000e-005				0.0000	0.0000		0.0000	0.0000			2.6600e-003			2.8300e-003

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7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	7.3701			14.5475
Unmitigated	7.3701			14.5475

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	5.42341 / 3.32403	5.5122			11.2113
Junior College (2yr)	1.4028 / 2.19413	1.8579			3.3363
Parking Lot	0 / 0	0.0000			0.0000
Total		7.3701			14.5475

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Government Office Building	5.42341 / 3.32403	5.5122			11.2113
Junior College (2yr)	1.4028 / 2.19413	1.8579			3.3363
Parking Lot	0 / 0	0.0000			0.0000
Total		7.3701			14.5475

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.7011			31.4666
Unmitigated	12.7011			31.4666

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	25.39	5.1539			12.7687
Junior College (2yr)	37.18	7.5472			18.6979
Parking Lot	0	0.0000			0.0000
Total		12.7011			31.4666

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Government Office Building	25.39	5.1539			12.7687
Junior College (2yr)	37.18	7.5472			18.6979
Parking Lot	0	0.0000			0.0000
Total		12.7011			31.4666

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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