

CalEEMod Inputs (Construction Run)

Name: Elementary School at Charter Square
Project Location: 1064 Shell Blvd
County/Air Basin: Foster City
Climate Zone: 5
Land Use Setting: Urban
Operational Year: 2019
Utility Company: Pacific Gas and Electric

	SQFT	Acreage
Total Site Area:	261,360	6.00

Components	Square Feet	Lot Acreage
Elementary School Buildings	42,162	0.97
Parking & Circulation*	77,062	1.77
Asphalt Hardscape*	60,500	1.39
Other Non-Asphalt Paving	31,636	0.73
Landscaping*	32,000	0.73
Non-Striped Turf Field*	18,000	0.41
		6.00

*Square footage based on aerial photograph of site plan

CalEEMod Land Use Inputs

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet
Elementary School	Educational	Elementary School	42.162	1000sqft	2.12	42,162
Parking	Parking	Parking Lot	77.1	1000sqft	1.77	77,062
Asphalt Hardscape*	Parking	Other Asphalt Surface	60.5	1000sqft	1.39	60,500
Other Non-Asphalt Paving	Parking	Other Non-Asphalt Hardscape	31.6	1000sqft	0.73	31,636
					6.00	211,360

Component	Amount to be Demolished (SQFT)*	Amount to be Demolished (Tons)	Haul Truck Capacity (tons)**	Haul Distance (miles)	Total Trip Ends	Trip Ends/ day	Duration (days)
Asphalt Demolition	205,360	1,540.20	20	20	156	4	43
Building Demolition	56,000	2,576.00	20	20	258	6	43
Totals	261,360	4,116.20			414	10	

Note: See Demo Haul Worksheets for Calcs

Component	Phase	Total Soil Haul Volume (CY)*	Haul Truck Capacity (CY)**	Haul Distance (miles)**	Total Trip Ends	Total Days	Trip Ends/Day
Soil Import and Export	Grading	22,800	16	20	2,850	66	44

*Provided by the Applicant.

**CalEEMod Default

Architectural Coating

BAAQMD Regulation 8 Rule 3	
Interior Paint VOC content:	100
Exterior Paint VOC content:	150
Non-Residential Architectural Coating	
Percentage of Buildings' Interior Painted:	100%
Percentage of Buildings' Exterior Painted:	100%

Non-Residential Structures	Land Use Square Feet	CalEEMod Application Factor	Total Paintable Surface Area ²	Paintable Interior Area ¹	Paintable Exterior Area ¹
Elementary School	42,162	2	84,324	63,243	21,081
Parking	77,062	0.06	4,624	0	4,624
Asphalt Hardscape*	60,500	0.06	3,630	0	3,630
					8,254

Notes:

1 *CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively. Architectural coatings for the parking lot is based on CalEEMod methodology applied to a stadium (i.e., striping), in which 6% of surface area is painted.

2

** Applied CalEEMod Methodology in calculating total. The program assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage defined by the user. The default values based on SCAQMD methods used in their coating rules are 75% for the interior surfaces and 25% for the exterior shell

Construction - Unmitigated Run

BAAQMD BMPs	
Replace Ground Cover	PM10: 5 % Reduction PM25: 5 % Reduction
Water Exposed Area	Frequency: 2 per day PM10: 55 % Reduction PM25: 55 % Reduction
Unpaved Roads	Vehicle Speed: 15 mph
Clean Paved Road	9 % PM Reduction

CalEEMod Construction Phase Inputs*

5-Day Work Week/8 hours per day

Phase Name	Phase Type	Start Date	End Date	CalEEMod Total Days	Total Days
<i>Demolition</i>	Demolition	3/1/2018	4/30/2018	43	60
<i>Demolition Hauling</i>	Demolition	3/1/2018	4/30/2018	43	60
<i>Grading</i>	Grading	6/1/2018	7/12/2018	30	41
<i>Grading Hauling</i>	Grading	6/1/2018	8/31/2018	66	91
<i>Building Construction</i>	Building Construction	7/13/2018	7/1/2019	252	353
<i>Paving</i>	Paving	6/4/2019	7/1/2019	20	27
<i>Painting</i>	Architectural Coating	6/4/2019	7/1/2019	20	27
		Year	Start Date	End Date	Days
		2018	3/1/2018	12/31/2018	218
		2019	1/1/2019	7/1/2019	130
					348

*Based on construction schedule provided by the Applicant.

Modeling conservatively assumes architectural coatings and paving would overlap with building construction in year 2019.

CalEEMod Construction Off-Road Equipment Inputs*

Equipment Type	CalEEMod Equipment Type	Unit Amount	Hours /Day	HP	LF	Vendor Trips	Worker Trips
Demolition							
Concrete/Industrial Saws	Concrete/Industrial Saws	1	8	81	0.73		
Excavators	Excavators	3	8	162	0.38		
Rubber Tired Dozers	Rubber Tired Dozers	2	8	255	0.4		
Worker Trips		15					15
Vendors Trips						4	
Haul Trips						414	
Mass Grading							
Excavators	Excavators	1	8	162	0.38		
Graders	Graders	1	8	174	0.41		
Rubber Tired Dozers	Rubber Tired Dozers	1	8	255	0.4		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	8	97	0.37		
Worker Trips		15					15
Vendors Trips						4	
Haul Trips						2,850	
Building Construction							
Cranes**	Cranes	1	7	226	0.29		
Forklifts	Forklifts	3	8	89	0.2		
Generator Sets	Generator Sets	1	8	84	0.74		
Tractors/Loaders/Backhoes	Tractors/Loaders/Backhoes	3	7	97	0.37		
Welders	Welders	1	8	46	0.45		
Concrete Trucks		11				4	
Worker Trips							89
Vendors Trips						35	
Paving							
Pavers	Pavers	2	8	89	0.42		
Paving Equipment	Paving Equipment	2	6	82	0.36		
Rollers	Rollers	2	6	84	0.38		
Worker Trips		15					15
Vendor Trips						0	
Architectural Coating							
Air Compressors	Air Compressors	1	6	78	0.48		
Worker Trips		2					18
Vendor Trips						0	

*CalEEMod default approved by Applicant.

**For mitigated construction scenario, the crane hours were reduced to 1 hour per day (i.e.160 hours of operation total over the entire building construction phase) as crane operation is typically limited to a 2 to 4 week period for building shell construction. The cited crane operating durations are from recently completed air quality modeling for similarly sized projects in the Bay Area, and provided by construction contractors (Hayward Unified School District, Harder Elementary School Reconstruction Project, 2017 and Cherryland Elementary School Reconstruction Project, 2017).

Demo Haul Trip Calculation

Conversion factors*

0.046 ton/SF
1.2641662 tons/cy
20 tons
15.820705 CY
0.7910352 CY/ton

Building Demolition Haul Trips (BSF and Haul Truck (CY) given)

BSF Demo	Tons/SF	Tons	Haul Truck (CY)	Haul Truck (Ton)	Round Trips	Total Trip Ends
56,000	0.046	2576	16	20.00	129	258

*CalEEMod User's Guide Version 2011.1, Appendix A

Pavement Volume to Weight Conversion

Component	Total SF of Area ¹	Assumed Thickness (foot) ²	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf) ³	AC Mass (lbs)	AC Mass (tons)
Asphalt	205,360	0.333	68,453	45	3,080,400	1540.20

¹ Based on construction information provided by the Applicant.

² Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System, 1999.

³ <http://www.reade.com/reafe-resources/reference-educational/reafe-reference-chart-particle-property-briefings/26-weight-per-cubic-foot-and-specific-gravity-metals-minerals-organics-inorganics-ceramics>

CalEEMod Inputs (Operational Run - Proposed Project 2020)

Name: Elementary School at Charter Square
Project Location: 1064 Shell Blvd
County/Air Basin: Foster City
Climate Zone: 5
Land Use Setting: Urban
Operational Year: 2019
Utility Company: Pacific Gas and Electric

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Acreeage	Sqft
Elementary School	Educational	Elementary School	42.162	1000sqft	2.12	42162
Parking	Parking	Parking Lot	77.062	1000sqft	1.77	77062
Asphalt Hardscape*	Parking	Other Asphalt Surface	60.5	1000sqft	1.39	60500
Other Non-Asphalt Paving	Parking	Other Non-Asphalt Hardscape	31.636	1000sqft	0.73	31636
					6.00	211,360.00

Trip Generations*

Proposed Project			Net ADT	
Weekday Trip Rate	32.14	trips/1000sqft	Existing	3,591
Saturday Trip Rate	0.0	trips/1000sqft	Proposed	1,355
Sunday Trip Rate	0.0	trips/1000sqft	Net	-2,236
Total Trips	1,355	ADT**		

*Based on ITE Trip Rates

**Proposed Project Total Daily Trips Provided by Hexagon Consulting

Solid Waste

Elementary School Solid Waste	54.81	TPY
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*Based on CalEEMod Defaults

Water Use

		Elementary School (GPY)
Septic Tank	0%	CalEEMod Default Indoor Water Use
Aerobic	100%	1,222,510.03
Facultative Lagoons	0%	CalEEMod Default Outdoor Water Use
		3,143,597.22
		CalEEMod Default Total Water Use
		4,366,107.25

*CalEEMod Default water generation rate.

Water Mitigation

Install Low Flow Bathroom Faucet	32	% Reduction in flow
Install Low Flow Kitchen Faucet	18	% Reduction in flow
Install Low Flow Toilet	20	% Reduction in flow
Install Low Flow Shower	20	% Reduction in flow
Use Water Efficiency Irrigation System	6.1	% Reduction in flow

Energy Mitigation*

2016 Building and Energy Efficiency Standards

Non-Residential Exceed Title 24	5%	Improvement over 2013 ¹
Residential Exceed Title 24	28.0%	Improvement over 2013 ¹

Sources:

1 California Energy Commission. 2015a. 2016 Building Energy Efficiency Standards, Adoption Hearing Presentation. <http://www.energy.ca.gov/title24/2016standards/rulemaking/documents/> June 10.

CalEEMod Inputs (Operational Run - Existing Project 2017)

Name:	Elementary School at Charter Square
Project Location:	1064 Shell Blvd
County/Air Basin:	Foster City
Climate Zone:	5
Land Use Setting:	Urban
Operational Year:	2019
Utility Company:	Pacific Gas and Electric

Land Use	Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Acreage	Sqft
Retail Shopping Center	Retail	Strip Mall	56	1000sqft	1.29	56000
Parking	Parking	Parking Lot	205.36	1000sqft	4.71	205,360
					6.00	261,360.00

Trip Generations

*Based on ITE Trip Rates

	Trip Rate* (trips/1000sqft)	Percent of Weekday Rate
Weekday	42.70	100%
Saturday	49.97	117%
Sunday	25.24	59%
PM Peak Hour Trips:**	312	trips
ITE Weekday Daily Trip Rate:*	42.7	trips/1000BSF
ITE Weekday PM Trip Rate:*	3.71	trips/1000BSF
PM Peak to Daily Ratio:	11.51	
Calculated Average Daily Trips:	3,591	trips
Calculated Weekday Trip Rate:	64.12	trips/1000BSF
Calculated Saturday Trip Rate:	75.04	trips/1000BSF
Calculated Sunday Trip Rate:	37.90	trips/1000BSF

* Hexagon Transportation Consultants, Inc. 2017, July 6. New Elementary School in Foster City Traffic Impact Analysis.

** Based on Shopping Center(Land Use Code 820) land use; Institute of Transportation Engineers. 2012. Trip Generation Manual, 9th Edition.

Solid Waste

Shopping Center Solid Waste	58.80	TPY
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*Based on CalEEMod Defaults

Water Use

		Shopping Center (GPY)
Septic Tank	0%	CalEEMod Default Indoor Water Use
Aerobic	100%	4,148,061.20
Facultative Lagoons	0%	CalEEMod Default Outdoor Water Use
		2,542,360.09
		CalEEMod Default Total Water Use
		6,690,421.29

*CalEEMod Default water generation rate.

Energy Use

*CalEEMod Defaults used with Historical Data Enabled

Changes to the CalEEMod Defaults - Fleet Mix 2017

	Trips 0													
Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.5191	0.049029	0.235321	0.130359	0.018842	0.005865	0.019139	0.006107	0.003579	0.003526	0.008051	0.000385	0.000682	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Percent	81%			13%	6%									100%
without buses/MH*	0.519116	0.049029	0.235321	0.130359	0.018842	0.005865	0.019139	0.006107	0	0	0.008051	0.0003850	0	99%
Percent	81%			13%	5%									99%
Adjusted without buses/MH	0.519116	0.049029	0.235321	0.130359	0.021757	0.006772	0.022100	0.007052	0.000000	0.000000	0.009296	0.000445	0.000000	
Percent check	81%			13%	6%									100%
Assumed Mix	97.0%			2.00%	1.00%									100%
adjusted with Assumed	0.619545	0.058514	0.280846	0.020000	0.003743	0.001165	0.003802	0.001213	0.000000	0.000000	0.011095	0.000076	0.000000	100%
Trips	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Check	0			0	0									

*School buses were left in for school use

Changes to the CalEEMod Defaults - Fleet Mix 2019

	Trips													1,355
Default	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH	
FleetMix (Model Default)	0.499	0.049513	0.248277	0.134909	0.018184	0.006326	0.02067	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722	100%
Trips	676	67	336	183	25	9	28	8	5	5	12	1	1	1,355
Percent	81%			13%	6%									100%
without buses/MH*	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0	0	0.008577	0.0004180	0	99%
Percent	81%			13%	5%									99%
Adjusted without buses/MH	0.498968	0.049513	0.248277	0.134909	0.020956	0.007290	0.023821	0.007207	0.000000	0.000000	0.009884	0.000482	0.000000	
Percent check	81%			13%	6%									100%
Assumed Mix	97.0%			2.00%	1.00%									100%
adjusted with Assumed	0.600017	0.059540	0.298557	0.020000	0.003507	0.001220	0.003986	0.001206	0.000000	0.000000	0.011886	0.000081	0.000000	100%
Trips	813	81	405	27	5	2	5	2	0	0	16	0	0	1,355
Check	1,314			27	13									

*School buses were left in for school use

		Onsite				Offsite		Total			
	tons/yr	ROG	NOx	CO	SO ₂	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total		0.79	5.48	3.80	0.01	0.22	0.26	0.48	0.07	0.24	0.31
Onsite											
	tons/yr	ROG	NOx	CO	SO ₂	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total Onsite		0.71	4.25	3.08	0.00	0.07	0.25	0.32	0.03	0.23	0.26
Total Offsite		0.08	1.23	0.72	0.00	0.15	0.01	0.16	0.04	0.01	0.05
2018											
	tons/yr	ROG	NOx	CO	SO ₂	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total 2018		0.33	3.64	2.28	0.01	0.16	0.16	0.32	0.05	0.15	0.20
Total 2019		0.45	1.84	1.52	0.00	0.06	0.10	0.16	0.02	0.09	0.11

	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		0.29	2.71	1.80	0.00	0.07	0.16	0.23	0.03	0.15	0.17
2018 Offsite		0.05	0.93	0.48	0.00	0.09	0.01	0.09	0.02	0.00	0.03
2019 Onsite		0.42	1.54	1.28	0.00	0.00	0.09	0.09	0.00	0.09	0.09
2019 Offsite		0.03	0.30	0.24	0.00	0.06	0.00	0.07	0.02	0.00	0.02

[illegible][illegible][illegible]

Grading Hauling - 2018

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						8.03E-03	0	8.03E-03	8.90E-04	0	8.90E-04
Off-Road		0	0	0	0		0	0		0	0
Hauling		1.52E-02	0.526	0.1903	1.20E-03	2.38E-02	2.17E-03	2.60E-02	6.55E-03	2.07E-03	8.62E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
Total		0.0152	0.526	0.1903	0.0012	0.03183	0.00217	0.03403	0.00744	0.00207	0.00951
TOTAL ONSITE		0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
TOTAL OFFSITE		0.02	0.53	0.19	0.00	0.02	0.00	0.03	0.01	0.00	0.01

Building Construction - 2018

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.1635	1.4268	1.0724	1.64E-03		0.0915	0.0915		0.086	0.086
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.14E-02	0.29	0.1106	5.80E-04	1.39E-02	2.23E-03	1.61E-02	4.02E-03	2.13E-03	6.15E-03
Worker		1.77E-02	1.29E-02	1.30E-01	4.20E-04	4.27E-02	2.80E-04	4.30E-02	1.14E-02	2.50E-04	1.16E-02
Total		0.19	1.73	1.31	0.00	0.06	0.09	0.15	0.02	0.09	0.10
TOTAL ONSITE		0.16	1.43	1.07	0.00	0.00	0.09	0.09	0.00	0.09	0.09
TOTAL OFFSITE		0.03	0.30	0.24	0.00	0.06	0.00	0.06	0.02	0.00	0.02

Building Construction - 2019

Unmitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.1535	1.3701	1.1156	1.75E-03		0.0838	0.0838		0.0788	0.0788
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		0.0108	0.2905	0.1116	6.10E-04	0.0148	2.01E-03	0.0168	4.29E-03	1.92E-03	6.21E-03
Worker		1.71E-02	1.21E-02	0.1241	4.30E-04	0.0455	2.90E-04	0.0458	1.21E-02	2.70E-04	1.24E-02
Total		0.18	1.67	1.35	0.00	0.06	0.09	0.15	0.02	0.08	0.10
TOTAL ONSITE		0.15	1.37	1.12	0.00	0.00	0.08	0.08	0.00	0.08	0.08
TOTAL OFFSITE		0.03	0.30	0.24	0.00	0.06	0.00	0.06	0.02	0.00	0.02

Paving - 2019

Unmitigated Construction

[illegible]

Architectural Coating - 2017

Unmitigated Construction

[illegible]

Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

Unmigated Run - with Best Control Measures for Fugitive Dust

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total		4.52	31.50	21.86	0.05	1.27	1.48	2.75	0.38	1.39	1.77
BAAQMD Threshold		54	54	NA	NA	BMP	82	54	BMP	54	NA
Exceeds Threshold		No	No	NA	NA	NA	No	No	NA	No	NA

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		3.07	33.37	20.92	0.05	1.45	1.48	2.93	0.46	1.39	1.84
TOTAL 2019		6.96	28.37	23.44	0.05	0.97	1.47	2.44	0.26	1.38	1.65

FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		2.62	24.87	16.52	0.03	0.63	1.44	2.07	0.23	1.34	1.57
2019 Onsite		6.51	23.71	19.70	0.03	0.00	1.44	1.44	0.00	1.35	1.35

Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.45	8.50	4.40	0.02	0.82	0.047	0.87	0.22	0.045	0.268
2019 Offsite		0.44	4.67	3.74	0.02	0.97	0.036	1.00	0.26	0.034	0.297

Criteria Air Pollutant Emissions Summary - Construction

Air Pollutant Emissions Summary - Construction											
	tons/yr	Stationary				Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
		ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
Total		0.48	3.50	3.73	0.01	0.20	0.04	0.24	0.06	0.04	0.10
	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total Onsite		0.40	2.27	3.01	0.00	0.06	0.03	0.09	0.02	0.03	0.06
Total Offsite		0.08	1.23	0.72	0.00	0.14	0.01	0.15	0.04	0.01	0.05
	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total 2018		0.13	2.28	2.27	0.01	0.14	0.02	0.17	0.05	0.02	0.07
Total 2019		0.34	1.22	1.47	0.00	0.06	0.02	0.08	0.02	0.02	0.03

FOR CONSTRUCTION RISK ASSESSMENT - Mitigated Run

						Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
	tons/yr	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5	Total
2018 Onsite		0.09	1.36	1.79	0.00	0.06	0.02	0.08	0.02	0.02	0.04
2018 Offsite		0.05	0.93	0.48	0.00	0.08	0.01	0.09	0.02	0.00	0.03
2019 Onsite		0.31	0.91	1.22	0.00	0.00	0.01	0.01	0.00	0.01	0.01
2019 Offsite		0.03	0.30	0.24	0.00	0.06	0.00	0.06	0.02	0.00	0.02

Demolition - 2018

Mitigated Construction

[illegible]

Demolition Haul - 2018

Mitigated Construction

					Fugitive	Exhaust	PM10	Fugitive	Exhaust	PM2.5
Category	tons/yr	ROG	NOx	CO	SO2	PM10	PM10	Total	PM2.5	PM2.5
Fugitive Dust						1.88E-02	0	1.88E-02	2.85E-03	2.85E-03
Off-Road		0	0	0	0		0	0	0	0
Hauling		2.20E-03	7.64E-02	2.76E-02	1.80E-04	3.23E-03	3.10E-04	3.54E-03	8.90E-04	3.00E-04
Vendor		0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0
Total		0.00	0.08	0.03	0.00	0.02	0.00	0.02	0.00	0.00
TOTAL ONSITE		0.00	0.00	0.00	0.00	0.02	0.00	0.02	0.00	0.00
TOTAL OFFSITE		0.00	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00

Grading - 2018

Mitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						0.042	0	0.042	0.0216	0	0.0216
Off-Road	0.0109	0.2226	0.2849	4.50E-04			0.0017	0.0017		0.0017	0.0017
Hauling	0	0	0	0		0	0	0	0	0	0
Vendor	3.20E-04	8.15E-03	3.11E-03	2.00E-05	3.70E-04	6.00E-05	4.30E-04	1.10E-04	6.00E-05	1.70E-04	
Worker	7.30E-04	5.30E-04	5.40E-03	2.00E-05	1.63E-03	1.00E-05	1.65E-03	4.40E-04	1.00E-05	4.50E-04	
Total	1.20E-02	2.31E-01	2.93E-01	4.90E-04		4.40E-02	1.77E-03	4.58E-02	2.22E-02	1.77E-03	2.39E-02
TOTAL ONSITE	0.01	0.22	0.28	0.00		0.04	0.00	0.04	0.02	0.00	0.02
TOTAL OFFSITE	0.00	0.01	0.01	0.00		0.00	0.00	0.00	0.00	0.00	0.00

Grading Hauling - 2018

Mitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Fugitive Dust						5.50E-04	0	5.50E-04	8.00E-05	0	8.00E-05
Off-Road		0	0	0	0		0	0		0	0
Hauling		1.52E-02	0.526	0.1903	1.20E-03	2.22E-02	2.17E-03	2.44E-02	6.15E-03	2.07E-03	8.22E-03
Vendor		0	0	0	0	0	0	0	0	0	0
Worker		0	0	0	0	0	0	0	0	0	0
Total		0.0152	0.526	0.1903	0.0012	0.02275	0.00217	0.02495	0.00623	0.00207	0.0083
TOTAL ONSITE		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL OFFSITE		0.02	0.53	0.19	0.00	0.02	0.00	0.02	0.01	0.00	0.01

Building Construction - 2018

Mitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0551	0.7419	0.9719	1.38E-03		0.0135	0.0135		0.0135	0.0135
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		1.14E-02	0.29	0.1106	5.80E-04	1.30E-02	2.23E-03	1.53E-02	3.81E-03	2.13E-03	5.94E-03
Worker		1.77E-02	1.29E-02	1.30E-01	4.20E-04	3.94E-02	2.80E-04	3.97E-02	1.06E-02	2.50E-04	1.08E-02
Total		0.08	1.04	1.21	0.00	0.05	0.02	0.07	0.01	0.02	0.03
TOTAL ONSITE		0.06	0.74	0.97	0.00	0.00	0.01	0.01	0.00	0.01	0.01
TOTAL OFFSITE		0.03	0.30	0.24	0.00	0.05	0.00	0.06	0.01	0.00	0.02

Building Construction - 2019

Mitigated Construction

Category	tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Off-Road		0.0551	0.7868	1.0322	1.47E-03		0.0135	0.0135		0.0135	0.0135
Hauling		0	0	0	0	0	0	0	0	0	0
Vendor		0.0108	0.2905	0.1116	6.10E-04	0.0139	2.01E-03	0.0159	4.06E-03	1.92E-03	5.98E-03
Worker		1.71E-02	1.21E-02	0.1241	4.30E-04	0.042	2.90E-04	0.0423	1.13E-02	2.70E-04	1.15E-02
Total		0.08	1.09	1.27	0.00	0.06	0.02	0.07	0.02	0.02	0.03
TOTAL ONSITE		0.06	0.79	1.03	0.00	0.00	0.01	0.01	0.00	0.01	0.01
TOTAL OFFSITE		0.03	0.30	0.24	0.00	0.06	0.00	0.06	0.02	0.00	0.02

Paving - 2019

Mitigated Construction

[illegible]

Architectural Coating - 2017

Mitigated Construction

[illegible]

Criteria Air Pollutant Emissions Summary - Construction

Annual emissions divided by total construction duration to obtain average daily emissions. Average construction emissions accounts for the duration of each construction phase and the time each piece of construction equipment is onsite.

Migated Run - Tier 3 engines/Level 3 DPFs for equipment over 50 hp; and with Fugitive Dust BMPs

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Total		2.75	20.12	21.45	0.05	1.16	0.23	1.39	0.36	0.23	0.59
BAAQMD Threshold		54	54	NA	NA	BMP	82	54	BMP	54	NA
Exceeds Threshold		No	No	NA	NA	NA	No	No	NA	No	NA

	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
TOTAL 2018		1.24	20.96	20.80	0.05	1.32	0.21	1.54	0.43	0.21	0.64
TOTAL 2019		5.27	18.72	22.56	0.04	0.90	0.26	1.16	0.25	0.26	0.50

FOR CONSTRUCTION RISK ASSESSMENT

Onsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Onsite		0.79	12.46	16.40	0.02	0.56	0.16	0.73	0.23	0.16	0.39
2019 Onsite		4.83	14.05	18.82	0.03	0.00	0.22	0.22	0.00	0.22	0.22
Offsite Details											
	avg lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
2018 Offsite		0.45	8.50	4.40	0.02	0.76	0.047	0.81	0.21	0.045	0.254
2019 Offsite		0.44	4.67	3.74	0.02	0.90	0.036	0.93	0.25	0.034	0.279

Greenhouse Gas Emissions Summary

Operation

Existing Project - 2017 Emission Rates

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	4.67E-03	4.67E-03	1.00E-05	0	5.00E-03	0%
Total Energy Use		0	266.4233	266.4233	1.16E-02	2.64E-03	267.4998	12%
Mobile Sources		0	1,850.71	1,850.71	8.20E-02	0	1,852.76	86%
Waste Generation		11.9359	0	11.9359	0.7054	0	29.5706	1%
Water/Wastewater		1.4676	9.1182	10.5858	5.46E-03	3.28E-03	11.6988	1%
Total		13	2126	2140	1	0	2162	100%
Total without Waste Generation							2132	

Proposed Project - 2019 Emission Rates

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	3.78E-03	3.78E-03	1.00E-05	0	4.03E-03	0%
Total Energy Use		0	110.5465	110.5465	4.07E-03	1.35E-03	111.0517	13%
Mobile Sources		0	687.8663	687.8663	2.73E-02	0	688.5498	83%
Waste Generation		11.1259	0	11.1259	0.6575	0	27.564	3%
Water/Wastewater		0.346	4.545	4.8911	1.40E-03	8.00E-04	5.1629	1%
Total		11	803	814	1	0	832	100%
Total without Waste Generation							805	97%

Net Emissions - 2019 Emission Rates

	MT/yr	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Area Sources		0	-0.00089	-0.00089	0	0	-0.00097	0%
Total Energy Use		0	-155.8768	-155.8768	-0.00753	-0.00129	-156.4481	12%
Mobile Sources		0	-1162.844	-1162.844	-0.0547	0	-1164.2102	88%
Waste Generation		-0.81	0	-0.81	-0.0479	0	-2.0066	0%
Water/Wastewater		-1.1216	-4.5732	-5.6947	-0.00406	-0.00248	-6.5359	0%
Total		-1.9315	-1323	-1325.227	-0.1142	-0.00377	-1329	100%
Total without Waste Generation							-1327	100%
BAAQMD Threshold							1100	
Exceeds Threshold							No	

Construction

Construction

	MTons Total
2018	507.2162
2019	279.3584
Total Construction	786.5746
30-Year Amortization	26
BAAQMD Threshold	1100
Exceeds Threshold	No

Criteria Air Pollutant Emissions Summary - Operations

Existing Project - 2019 Emission Rates

	Tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		0.2657	2.00E-05	2.43E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05
Energy Use		1.62E-03	0.0148	0.0124	9.00E-05		1.12E-03	1.12E-03		1.12E-03	1.12E-03
Mobile Sources		0.8194	0.93	7.8768	0.0194	1.9465	0.0162	1.9627	0.518	0.015	0.533
Waste Generation							0	0		0	0
Water/Wastewater							0	0		0	0
Total		1.09	0.94	7.89	0.02	1.95	0.02	1.96	0.52	0.02	0.53

Proposed Project - 2019 Emission Rates

	Tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		0.2006	2.00E-05	1.96E-03	0		1.00E-05	1.00E-05		1.00E-05	1.00E-05
Energy Use		3.59E-03	0.0327	0.0274	2.00E-04		2.48E-03	2.48E-03		2.48E-03	2.48E-03
Mobile Sources		2.58E-01	3.34E-01	2.8249	7.60E-03	7.78E-01	6.06E-03	7.84E-01	2.07E-01	5.61E-03	2.13E-01
Waste Generation							0	0		0	0
Water/Wastewater							0	0		0	0
Total		0.46	0.37	2.85	0.01	0.78	0.01	0.79	0.21	0.01	0.22

Change in Emissions

	Tons/yr	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		-0.0651	0	-0.00047	0	0	0	0	0	0	0
Energy Use		0.00197	0.0179	0.015	0.00011	0	0.00136	0.00136	0	0.00136	0.00136
Mobile Sources		-0.5615	-0.5963	-5.0519	-0.0118	-1.1688	-0.01014	-1.1789	-0.311	-0.00939	-0.3204
Waste Generation		0	0	0	0	0	0	0	0	0	0
Water/Wastewater		0	0	0	0	0	0	0	0	0	0
Total		-0.62461	-0.57838	-5.03734	-0.0116	-1.1688	-0.00875	-1.17751	-0.311	-0.008	-0.31911

BAAQMD Threshold (Annual)	10.00	10.00	NA	NA	NA	NA	NA	15.00	NA	NA	10.00
Exceeds Threshold	No	No	NA	NA	NA	NA	NA	No	NA	NA	No

Criteria Air Pollutant Emissions Summary - Operations

Annual emissions divided by 365 days/year to obtain average daily emissions.

Existing Project - 2019 Emission Rates

	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		1.45589	0.00011	0.013315	0	0	5.48E-05	5.48E-05	0	5.48E-05	5.48E-05
Energy Use		0.008877	0.081096	0.067945	0.000493	0	0.006137	0.006137	0	0.006137	0.006137
Mobile Sources		4.489863	5.09589	43.16055	0.106301	10.66575	0.088767	10.75452	2.838356	0.082192	2.920548
Waste Generation		0	0	0	0	0	0	0	0	0	0
Water/Wastewater		0	0	0	0	0	0	0	0	0	0
Total		5.954521	6.271233	51.92219	0.112877	10.66411	0.099726	10.76384	2.837808	0.093151	2.930959

BAAQMD Threshold (Daily)	54	54	NA	NA	NA	NA		82	NA	NA	54
Exceeds Threshold	No	No	NA	NA	NA	NA		No	NA	NA	No

Proposed Project - 2019 Emission Rates

	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		1.099178	0.00011	0.01074	0	0	5.48E-05	5.48E-05	0	5.48E-05	5.48E-05
Energy Use		0.019671	0.179178	0.150137	0.001096	0	0.013589	0.013589	0	0.013589	0.013589
Mobile Sources		1.413151	1.828493	15.4789	0.041644	4.26137	0.033205	4.294795	1.134247	0.03074	1.164932
Waste Generation		0	0	0	0	0	0	0	0	0	0
Water/Wastewater		0	0	0	0	0	0	0	0	0	0
Total		2.532	2.007781	15.63978	0.04274	4.26137	0.046849	4.308438	1.134247	0.044384	1.178575

BAAQMD Threshold (Daily)	54	54	NA	NA	NA	NA		82	NA	NA	54
Exceeds Threshold	No	No	NA	NA	NA	NA		No	NA	NA	No

Net Emissions

	lbs/day	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total
Area Sources		-0.356712	0	-0.002575	0	0	0	0	0	0	0
Energy Use		0.010795	0.098082	0.082192	0.000603	0	0.007452	0.007452	0	0.007452	0.007452
Mobile Sources		-3.076712	-3.267397	-27.68164	-0.064658	-6.404384	-0.055562	-6.459726	-1.70411	-0.051452	-1.755616
Waste Generation		0	0	0	0	0	0	0	0	0	0
Water/Wastewater		0	0	0	0	0	0	0	0	0	0
Total		-3.42	-3.17	-27.60	-0.06	-6.40	-0.05	-6.45	-1.70	-0.04	-1.75

BAAQMD Threshold (Daily)	54	54	NA	NA	NA	NA		82	NA	NA	54
Exceeds Threshold	No	No	NA	NA	NA	NA		No	NA	NA	No

Elementary School at Charter Square - San Mateo County, Annual

Elementary School at Charter Square

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Elementary School	42.16	1000sqft	2.12	42,162.00	0
Other Asphalt Surfaces	60.50	1000sqft	1.39	60,500.00	0
Other Non-Asphalt Surfaces	31.64	1000sqft	0.73	31,636.00	0
Parking Lot	77.06	1000sqft	1.77	77,062.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - x

Land Use - See CalEEMod Assumptions File

Construction Phase - See CalEEMod Assumptions

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Haul Phase

Off-road Equipment -

Off-road Equipment - Haul Phase

Off-road Equipment -

Trips and VMT - See calEEMod Assumptions

Demolition -

Grading -

Architectural Coating - See CalEEMod Assumptions

Vehicle Trips - See CalEEMod Assumptions

Area Coating - See CalEEMod Assumptions

Water And Wastewater - See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Energy Mitigation -

Water Mitigation -

Fleet Mix - See CalEEMod Assumptions

Energy Use -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Parking	10,152.00	8,254.00
tblAreaCoating	Area_Parking	10152	8254
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblConstructionPhase	NumDays	230.00	252.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	43.00
tblConstructionPhase	NumDays	20.00	30.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	PhaseEndDate	12/24/2019	7/1/2019
tblConstructionPhase	PhaseEndDate	10/29/2019	7/1/2019
tblConstructionPhase	PhaseEndDate	6/28/2018	4/30/2018
tblConstructionPhase	PhaseEndDate	8/9/2018	7/12/2018
tblConstructionPhase	PhaseEndDate	11/9/2018	8/31/2018
tblConstructionPhase	PhaseEndDate	11/26/2019	7/1/2019
tblConstructionPhase	PhaseStartDate	11/27/2019	6/4/2019

tblConstructionPhase	PhaseStartDate	11/10/2018	7/13/2018
tblConstructionPhase	PhaseStartDate	5/1/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	6/29/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	8/10/2018	6/1/2018
tblConstructionPhase	PhaseStartDate	10/30/2019	6/4/2019
tblFleetMix	HHD	6.2540e-003	1.2060e-003
tblFleetMix	LDA	0.50	0.60
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.25	0.30
tblFleetMix	LHD1	0.02	3.5070e-003
tblFleetMix	LHD2	6.3260e-003	1.2200e-003
tblFleetMix	MCY	8.5770e-003	0.01
tblFleetMix	MDV	0.13	0.02
tblFleetMix	MH	7.2200e-004	0.00
tblFleetMix	MHD	0.02	3.9860e-003
tblFleetMix	OBUS	3.8280e-003	0.00
tblFleetMix	SBUS	4.1800e-004	8.1000e-005
tblFleetMix	UBUS	3.3540e-003	0.00
tblGrading	AcresOfGrading	0.00	33.00
tblGrading	MaterialExported	0.00	11,500.00
tblGrading	MaterialImported	0.00	11,300.00
tblLandUse	BuildingSpaceSquareFeet	42,160.00	42,162.00
tblLandUse	BuildingSpaceSquareFeet	31,640.00	31,636.00
tblLandUse	BuildingSpaceSquareFeet	77,060.00	77,062.00
tblLandUse	LandUseSquareFeet	42,160.00	42,162.00
tblLandUse	LandUseSquareFeet	31,640.00	31,636.00
tblLandUse	LandUseSquareFeet	77,060.00	77,062.00
tblLandUse	LotAcreage	0.97	2.12
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	407.00	414.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblVehicleTrips	WD_TR	15.43	32.14
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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
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Year	tons/yr										MT/yr					
2018	0.3341	3.6372	2.2802	5.3900e-003	0.2503	0.1616	0.4119	0.0836	0.1512	0.2347	0.0000	504.9126	504.9126	0.0922	0.0000	507.2165
2019	0.4523	1.8441	1.5235	3.0800e-003	0.0630	0.0957	0.1587	0.0171	0.0899	0.1070	0.0000	278.1040	278.1040	0.0502	0.0000	279.3586
Maximum	0.4523	3.6372	2.2802	5.3900e-003	0.2503	0.1616	0.4119	0.0836	0.1512	0.2347	0.0000	504.9126	504.9126	0.0922	0.0000	507.2165

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					
2018	0.3341	3.6372	2.2802	5.3900e-003	0.1581	0.1616	0.3197	0.0497	0.1512	0.2008	0.0000	504.9123	504.9123	0.0922	0.0000	507.2162
2019	0.4523	1.8441	1.5235	3.0800e-003	0.0630	0.0957	0.1587	0.0171	0.0899	0.1070	0.0000	278.1038	278.1038	0.0502	0.0000	279.3584
Maximum	0.4523	3.6372	2.2802	5.3900e-003	0.1581	0.1616	0.3197	0.0497	0.1512	0.2008	0.0000	504.9123	504.9123	0.0922	0.0000	507.2162

	ROG	NOx	CO	SO2	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	29.44	0.00	16.17	33.70	0.00	9.93	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	3-1-2018	5-31-2018	0.9300	0.9300
2	6-1-2018	8-31-2018	1.8379	1.8379
3	9-1-2018	11-30-2018	1.0244	1.0244
4	12-1-2018	2-28-2019	0.9518	0.9518
5	3-1-2019	5-31-2019	0.9358	0.9358
6	6-1-2019	8-31-2019	0.7570	0.7570
		Highest	1.8379	1.8379

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	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003
Energy	3.7600e-003	0.0342	0.0287	2.1000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	112.6493	112.6493	4.1200e-003	1.3900e-003	113.1660
Mobile	0.2579	0.3337	2.8249	7.6000e-003	0.7777	6.0600e-003	0.7838	0.2070	5.6100e-003	0.2126	0.0000	687.8663	687.8663	0.0273	0.0000	688.5498
Waste						0.0000	0.0000		0.0000	0.0000	11.1259	0.0000	11.1259	0.6575	0.0000	27.5640
Water						0.0000	0.0000		0.0000	0.0000	0.4325	5.1252	5.5577	1.7200e-003	9.9000e-004	5.8953
Total	0.4623	0.3679	2.8556	7.8100e-003	0.7777	8.6700e-003	0.7864	0.2070	8.2200e-003	0.2152	11.5585	805.6444	817.2029	0.6907	2.3800e-003	835.1791

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	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003
Energy	3.5900e-003	0.0327	0.0274	2.0000e-004		2.4800e-003	2.4800e-003		2.4800e-003	2.4800e-003	0.0000	110.5465	110.5465	4.0700e-003	1.3500e-003	111.0517
Mobile	0.2579	0.3337	2.8249	7.6000e-003	0.7777	6.0600e-003	0.7838	0.2070	5.6100e-003	0.2126	0.0000	687.8663	687.8663	0.0273	0.0000	688.5498
Waste						0.0000	0.0000		0.0000	0.0000	11.1259	0.0000	11.1259	0.6575	0.0000	27.5640
Water						0.0000	0.0000		0.0000	0.0000	0.3460	4.5450	4.8911	1.4000e-003	8.0000e-004	5.1629

Total	0.4621	0.3664	2.8543	7.8000e-003	0.7777	8.5500e-003	0.7863	0.2070	8.1000e-003	0.2151	11.4720	802.9616	814.4335	0.6903	2.1500e-003	832.3324
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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	N20	CO2e
Percent Reduction	0.04	0.42	0.05	0.13	0.00	1.38	0.02	0.00	1.46	0.06	0.75	0.33	0.34	0.05	9.66	0.34

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	3/1/2018	4/30/2018	5	43	
2	Demo Haul	Demolition	3/1/2018	4/30/2018	5	43	
3	Grading	Grading	6/1/2018	7/12/2018	5	30	
4	Grading Haul	Grading	6/1/2018	8/31/2018	5	66	
5	Building Construction	Building Construction	7/13/2018	7/1/2019	5	252	
6	Paving	Paving	6/4/2019	7/1/2019	5	20	
7	Architectural Coating	Architectural Coating	6/4/2019	7/1/2019	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 3.89

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 63,243; Non-Residential Outdoor: 21,081; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Demo Haul	Concrete/Industrial Saws	0	8.00	81	0.73
Demo Haul	Excavators	0	8.00	158	0.38

Demo Haul	Rubber Tired Dozers	0	8.00	247	0.40
Demo Haul	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48
Grading Haul	Excavators	0	8.00	158	0.38
Grading Haul	Graders	0	8.00	187	0.41
Grading Haul	Rubber Tired Dozers	0	8.00	247	0.40
Grading Haul	Tractors/Loaders/Backhoes	0	8.00	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
Demolition	6	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demo Haul	0	0.00	0.00	414.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	4.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	89.00	35.00	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	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading Haul	0	0.00	0.00	2,850.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2018

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0800	0.8239	0.4795	8.3000e-004		0.0417	0.0417		0.0388	0.0388	0.0000	75.5168	75.5168	0.0208	0.0000	76.0369
Total	0.0800	0.8239	0.4795	8.3000e-004	0.0000	0.0417	0.0417	0.0000	0.0388	0.0388	0.0000	75.5168	75.5168	0.0208	0.0000	76.0369

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	4.6000e-004	0.0117	4.4600e-003	2.0000e-005	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	9.0000e-005	2.5000e-004	0.0000	2.3247	2.3247	2.1000e-004	0.0000	2.3298
Worker	1.0500e-003	7.6000e-004	7.7400e-003	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	2.2536	2.2536	5.0000e-005	0.0000	2.2549
Total	1.5100e-003	0.0124	0.0122	4.0000e-005	3.1000e-003	1.1000e-004	3.2100e-003	8.4000e-004	1.1000e-004	9.4000e-004	0.0000	4.5783	4.5783	2.6000e-004	0.0000	4.5847

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					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0800	0.8239	0.4795	8.3000e-004		0.0417	0.0417		0.0388	0.0388	0.0000	75.5167	75.5167	0.0208	0.0000	76.0368
Total	0.0800	0.8239	0.4795	8.3000e-004	0.0000	0.0417	0.0417	0.0000	0.0388	0.0388	0.0000	75.5167	75.5167	0.0208	0.0000	76.0368

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	4.6000e-004	0.0117	4.4600e-003	2.0000e-005	5.6000e-004	9.0000e-005	6.5000e-004	1.6000e-004	9.0000e-005	2.5000e-004	0.0000	2.3247	2.3247	2.1000e-004	0.0000	2.3298
Worker	1.0500e-003	7.6000e-004	7.7400e-003	2.0000e-005	2.5400e-003	2.0000e-005	2.5600e-003	6.8000e-004	2.0000e-005	6.9000e-004	0.0000	2.2536	2.2536	5.0000e-005	0.0000	2.2549
Total	1.5100e-003	0.0124	0.0122	4.0000e-005	3.1000e-003	1.1000e-004	3.2100e-003	8.4000e-004	1.1000e-004	9.4000e-004	0.0000	4.5783	4.5783	2.6000e-004	0.0000	4.5847

3.3 Demo Haul - 2018

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
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Total	0.0000	0.0000	0.0000	0.0000	0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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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	2.2000e-003	0.0764	0.0276	1.8000e-004	3.4600e-003	3.1000e-004	3.7800e-003	9.5000e-004	3.0000e-004	1.2500e-003	0.0000	17.7925	17.7925	2.1200e-003	0.0000	17.8454
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	0.0000	0.0000	0.0000	0.0000	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	2.2000e-003	0.0764	0.0276	1.8000e-004	3.4600e-003	3.1000e-004	3.7800e-003	9.5000e-004	3.0000e-004	1.2500e-003	0.0000	17.7925	17.7925	2.1200e-003	0.0000	17.8454

3.4 Grading - 2018

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					0.0983	0.0000	0.0983	0.0505	0.0000	0.0505	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4601	0.2487	4.5000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	40.6603	40.6603	0.0127	0.0000	40.9768
Total	0.0416	0.4601	0.2487	4.5000e-004	0.0983	0.0233	0.1216	0.0505	0.0214	0.0719	0.0000	40.6603	40.6603	0.0127	0.0000	40.9768

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	3.2000e-004	8.1500e-003	3.1100e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.6219	1.6219	1.4000e-004	0.0000	1.6255
Worker	7.3000e-004	5.3000e-004	5.4000e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5723	1.5723	4.0000e-005	0.0000	1.5732
Total	1.0500e-003	8.6800e-003	8.5100e-003	4.0000e-005	2.1600e-003	7.0000e-005	2.2300e-003	5.8000e-004	7.0000e-005	6.5000e-004	0.0000	3.1941	3.1941	1.8000e-004	0.0000	3.1987

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					0.0420	0.0000	0.0420	0.0216	0.0000	0.0216	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0416	0.4601	0.2487	4.5000e-004		0.0233	0.0233		0.0214	0.0214	0.0000	40.6603	40.6603	0.0127	0.0000	40.9767
Total	0.0416	0.4601	0.2487	4.5000e-004	0.0420	0.0233	0.0653	0.0216	0.0214	0.0430	0.0000	40.6603	40.6603	0.0127	0.0000	40.9767

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	3.2000e-004	8.1500e-003	3.1100e-003	2.0000e-005	3.9000e-004	6.0000e-005	4.5000e-004	1.1000e-004	6.0000e-005	1.7000e-004	0.0000	1.6219	1.6219	1.4000e-004	0.0000	1.6255
Worker	7.3000e-004	5.3000e-004	5.4000e-003	2.0000e-005	1.7700e-003	1.0000e-005	1.7800e-003	4.7000e-004	1.0000e-005	4.8000e-004	0.0000	1.5723	1.5723	4.0000e-005	0.0000	1.5732
Total	1.0500e-003	8.6800e-003	8.5100e-003	4.0000e-005	2.1600e-003	7.0000e-005	2.2300e-003	5.8000e-004	7.0000e-005	6.5000e-004	0.0000	3.1941	3.1941	1.8000e-004	0.0000	3.1987

3.5 Grading Haul - 2018

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					0.0188	0.0000	0.0188	2.0800e-003	0.0000	2.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	0.0188	0.0000	0.0188	2.0800e-003	0.0000	2.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0152	0.5260	0.1903	1.2000e-003	0.0238	2.1700e-003	0.0260	6.5500e-003	2.0700e-003	8.6200e-003	0.0000	122.4845	122.4845	0.0146	0.0000	122.8488
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	0.0000	0.0000	0.0000	0.0000	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	0.0152	0.5260	0.1903	1.2000e-003	0.0238	2.1700e-003	0.0260	6.5500e-003	2.0700e-003	8.6200e-003	0.0000	122.4845	122.4845	0.0146	0.0000	122.8488

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					8.0300e-003	0.0000	8.0300e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0000	0.0000	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	0.0000	0.0000	0.0000	0.0000	8.0300e-003	0.0000	8.0300e-003	8.9000e-004	0.0000	8.9000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0152	0.5260	0.1903	1.2000e-003	0.0238	2.1700e-003	0.0260	6.5500e-003	2.0700e-003	8.6200e-003	0.0000	122.4845	122.4845	0.0146	0.0000	122.8488
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	0.0000	0.0000	0.0000	0.0000	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	0.0152	0.5260	0.1903	1.2000e-003	0.0238	2.1700e-003	0.0260	6.5500e-003	2.0700e-003	8.6200e-003	0.0000	122.4845	122.4845	0.0146	0.0000	122.8488

3.6 Building Construction - 2018

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	0.1635	1.4268	1.0724	1.6400e-003		0.0915	0.0915		0.0860	0.0860	0.0000	145.0380	145.0380	0.0355	0.0000	145.9264
Total	0.1635	1.4268	1.0724	1.6400e-003		0.0915	0.0915		0.0860	0.0860	0.0000	145.0380	145.0380	0.0355	0.0000	145.9264

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	0.0114	0.2900	0.1106	5.8000e-004	0.0139	2.2300e-003	0.0161	4.0200e-003	2.1300e-003	6.1500e-003	0.0000	57.7110	57.7110	5.1400e-003	0.0000	57.8395
Worker	0.0177	0.0129	0.1303	4.2000e-004	0.0427	2.8000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	37.9371	37.9371	8.9000e-004	0.0000	37.9594
Total	0.0291	0.3029	0.2410	1.0000e-003	0.0567	2.5100e-003	0.0592	0.0154	2.3800e-003	0.0178	0.0000	95.6482	95.6482	6.0300e-003	0.0000	95.7989

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	0.1635	1.4268	1.0724	1.6400e-003		0.0915	0.0915		0.0860	0.0860	0.0000	145.0378	145.0378	0.0355	0.0000	145.9262

Total	0.1635	1.4268	1.0724	1.6400e-003		0.0915	0.0915		0.0860	0.0860	0.0000	145.0378	145.0378	0.0355	0.0000	145.9262
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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	0.0114	0.2900	0.1106	5.8000e-004	0.0139	2.2300e-003	0.0161	4.0200e-003	2.1300e-003	6.1500e-003	0.0000	57.7110	57.7110	5.1400e-003	0.0000	57.8395
Worker	0.0177	0.0129	0.1303	4.2000e-004	0.0427	2.8000e-004	0.0430	0.0114	2.5000e-004	0.0116	0.0000	37.9371	37.9371	8.9000e-004	0.0000	37.9594
Total	0.0291	0.3029	0.2410	1.0000e-003	0.0567	2.5100e-003	0.0592	0.0154	2.3800e-003	0.0178	0.0000	95.6482	95.6482	6.0300e-003	0.0000	95.7989

3.6 Building Construction - 2019

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	0.1535	1.3701	1.1157	1.7500e-003		0.0838	0.0838		0.0788	0.0788	0.0000	152.8177	152.8177	0.0372	0.0000	153.7484
Total	0.1535	1.3701	1.1157	1.7500e-003		0.0838	0.0838		0.0788	0.0788	0.0000	152.8177	152.8177	0.0372	0.0000	153.7484

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	0.0108	0.2905	0.1116	6.1000e-004	0.0148	2.0100e-003	0.0168	4.2900e-003	1.9200e-003	6.2100e-003	0.0000	60.8574	60.8574	5.3700e-003	0.0000	60.9917
Worker	0.0171	0.0121	0.1241	4.3000e-004	0.0455	2.9000e-004	0.0458	0.0121	2.7000e-004	0.0124	0.0000	39.1663	39.1663	8.4000e-004	0.0000	39.1873
Total	0.0279	0.3025	0.2357	1.0400e-003	0.0604	2.3000e-003	0.0627	0.0164	2.1900e-003	0.0186	0.0000	100.0237	100.0237	6.2100e-003	0.0000	100.1790

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	0.1535	1.3701	1.1156	1.7500e-003		0.0838	0.0838		0.0788	0.0788	0.0000	152.8176	152.8176	0.0372	0.0000	153.7482
Total	0.1535	1.3701	1.1156	1.7500e-003		0.0838	0.0838		0.0788	0.0788	0.0000	152.8176	152.8176	0.0372	0.0000	153.7482

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	0.0108	0.2905	0.1116	6.1000e-004	0.0148	2.0100e-003	0.0168	4.2900e-003	1.9200e-003	6.2100e-003	0.0000	60.8574	60.8574	5.3700e-003	0.0000	60.9917
Worker	0.0171	0.0121	0.1241	4.3000e-004	0.0455	2.9000e-004	0.0458	0.0121	2.7000e-004	0.0124	0.0000	39.1663	39.1663	8.4000e-004	0.0000	39.1873
Total	0.0279	0.3025	0.2357	1.0400e-003	0.0604	2.3000e-003	0.0627	0.0164	2.1900e-003	0.0186	0.0000	100.0237	100.0237	6.2100e-003	0.0000	100.1790

3.7 Paving - 2019

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	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.1000e-004	3.2200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0156	1.0156	2.0000e-005	0.0000	1.0161
Total	4.4000e-004	3.1000e-004	3.2200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0156	1.0156	2.0000e-005	0.0000	1.0161

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	0.0145	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371
Paving	4.1400e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0187	0.1524	0.1467	2.3000e-004		8.2500e-003	8.2500e-003		7.5900e-003	7.5900e-003	0.0000	20.4752	20.4752	6.4800e-003	0.0000	20.6371

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	3.1000e-004	3.2200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0156	1.0156	2.0000e-005	0.0000	1.0161
Total	4.4000e-004	3.1000e-004	3.2200e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.0156	1.0156	2.0000e-005	0.0000	1.0161

3.8 Architectural Coating - 2019

Unmitigated Construction On-Site

Off-Road	2.6600e-003	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586
Total	0.2512	0.0184	0.0184	3.0000e-005		1.2900e-003	1.2900e-003		1.2900e-003	1.2900e-003	0.0000	2.5533	2.5533	2.2000e-004	0.0000	2.5586

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	3.7000e-004	3.8600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2187	1.2187	3.0000e-005	0.0000	1.2193
Total	5.3000e-004	3.7000e-004	3.8600e-003	1.0000e-005	1.4200e-003	1.0000e-005	1.4300e-003	3.8000e-004	1.0000e-005	3.9000e-004	0.0000	1.2187	1.2187	3.0000e-005	0.0000	1.2193

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	0.2579	0.3337	2.8249	7.6000e-003	0.7777	6.0600e-003	0.7838	0.2070	5.6100e-003	0.2126	0.0000	687.8663	687.8663	0.0273	0.0000	688.5498
Unmitigated	0.2579	0.3337	2.8249	7.6000e-003	0.7777	6.0600e-003	0.7838	0.2070	5.6100e-003	0.2126	0.0000	687.8663	687.8663	0.0273	0.0000	688.5498

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Elementary School	1,355.02	0.00	0.00	2,134,101	2,134,101
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Total	1,355.02	0.00	0.00	2,134,101	2,134,101

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Elementary School	9.50	7.30	7.30	65.00	30.00	5.00	63	25	12
Other Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
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
Elementary School	0.600017	0.059540	0.298557	0.020000	0.003507	0.001220	0.003986	0.001206	0.000000	0.000000	0.011886	0.000081	0.000000
Other Asphalt Surfaces	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722
Other Non-Asphalt Surfaces	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722
Parking Lot	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	74.9898	74.9898	3.3900e-003	7.0000e-004	75.2837
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	75.4130	75.4130	3.4100e-003	7.1000e-004	75.7085
NaturalGas Mitigated	3.5900e-003	0.0327	0.0274	2.0000e-004		2.4800e-003	2.4800e-003		2.4800e-003	2.4800e-003	0.0000	35.5567	35.5567	6.8000e-004	6.5000e-004	35.7680
NaturalGas Unmitigated	3.7600e-003	0.0342	0.0287	2.1000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	37.2363	37.2363	7.1000e-004	6.8000e-004	37.4575

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					
Elementary School	697781	3.7600e-003	0.0342	0.0287	2.1000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	37.2363	37.2363	7.1000e-004	6.8000e-004	37.4575
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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		3.7600e-003	0.0342	0.0287	2.1000e-004		2.6000e-003	2.6000e-003		2.6000e-003	2.6000e-003	0.0000	37.2363	37.2363	7.1000e-004	6.8000e-004	37.4575

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					
Elementary School	666307	3.5900e-003	0.0327	0.0274	2.0000e-004		2.4800e-003	2.4800e-003		2.4800e-003	2.4800e-003	0.0000	35.5567	35.5567	6.8000e-004	6.5000e-004	35.7680
Other Asphalt Surfaces	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
Other Non-Asphalt Surfaces	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
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		3.5900e-003	0.0327	0.0274	2.0000e-004		2.4800e-003	2.4800e-003		2.4800e-003	2.4800e-003	0.0000	35.5567	35.5567	6.8000e-004	6.5000e-004	35.7680

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Elementary School	191415	55.6850	2.5200e-003	5.2000e-004	55.9032
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	67814.6	19.7280	8.9000e-004	1.8000e-004	19.8053
Total		75.4130	3.4100e-003	7.0000e-004	75.7085

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
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Land Use	kWh/yr	MT/yr			
Elementary School	189961	55.2618	2.5000e-003	5.2000e-004	55.4783
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	67814.6	19.7280	8.9000e-004	1.8000e-004	19.8053
Total		74.9898	3.3900e-003	7.0000e-004	75.2837

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	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003
Unmitigated	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-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
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SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003
Total	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-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	0.0249					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1756					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.9000e-004	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003
Total	0.2006	2.0000e-005	1.9600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.7800e-003	3.7800e-003	1.0000e-005	0.0000	4.0300e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	4.8911	1.4000e-003	8.0000e-004	5.1629
Unmitigated	5.5577	1.7200e-003	9.9000e-004	5.8953

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	1.22251 / 3.1436	5.5577	1.7200e-003	9.9000e-004	5.8953
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		5.5577	1.7200e-003	9.9000e-004	5.8953

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Elementary School	0.978008 / 2.95184	4.8911	1.4000e-003	8.0000e-004	5.1629
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		4.8911	1.4000e-003	8.0000e-004	5.1629

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.1259	0.6575	0.0000	27.5640
Unmitigated	11.1259	0.6575	0.0000	27.5640

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	54.81	11.1259	0.6575	0.0000	27.5640
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.1259	0.6575	0.0000	27.5640

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Elementary School	54.81	11.1259	0.6575	0.0000	27.5640
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Total		11.1259	0.6575	0.0000	27.5640

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing Charter Square - San Mateo County, Annual

Existing Charter Square

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	205.36	1000sqft	4.71	205,360.00	0
Strip Mall	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2017
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - x

Land Use - x

Demolition -

Grading -

Vehicle Trips - ITE Trip Rates

Energy Use -

Water And Wastewater - See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Fleet Mix - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFleetMix	HHD	6.1070e-003	1.2130e-003
tblFleetMix	LDA	0.52	0.62
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.24	0.28
tblFleetMix	LHD1	0.02	3.7430e-003
tblFleetMix	LHD2	5.8650e-003	1.1650e-003
tblFleetMix	MCY	8.0510e-003	0.01
tblFleetMix	MDV	0.13	0.02
tblFleetMix	MH	6.8200e-004	0.00
tblFleetMix	MHD	0.02	3.8020e-003
tblFleetMix	OBUS	3.5790e-003	0.00
tblFleetMix	SBUS	3.8500e-004	0.00
tblFleetMix	UBUS	3.5260e-003	0.00
tblProjectCharacteristics	OperationalYear	2018	2017
tblTripsAndVMT	HaulingTripNumber	0.00	2,850.00
tblVehicleTrips	ST_TR	42.04	75.04
tblVehicleTrips	SU_TR	20.43	37.90
tblVehicleTrips	WD_TR	44.32	64.12
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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					
2014	0.3446	3.6446	1.9147	4.3700e-003	0.2753	0.1706	0.4459	0.1106	0.1599	0.2704	0.0000	417.7681	417.7681	0.0721	0.0000	419.5704
2015	0.7059	3.0910	2.0709	3.8300e-003	0.0842	0.1812	0.2653	0.0229	0.1703	0.1931	0.0000	354.8398	354.8398	0.0627	0.0000	356.4085
Maximum	0.7059	3.6446	2.0709	4.3700e-003	0.2753	0.1812	0.4459	0.1106	0.1703	0.2704	0.0000	417.7681	417.7681	0.0721	0.0000	419.5704

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					
2014	0.3446	3.6446	1.9147	4.3700e-003	0.1608	0.1706	0.3314	0.0590	0.1599	0.2189	0.0000	417.7678	417.7678	0.0721	0.0000	419.5702
2015	0.7059	3.0910	2.0709	3.8300e-003	0.0842	0.1812	0.2653	0.0229	0.1703	0.1931	0.0000	354.8396	354.8396	0.0627	0.0000	356.4082
Maximum	0.7059	3.6446	2.0709	4.3700e-003	0.1608	0.1812	0.3314	0.0590	0.1703	0.2189	0.0000	417.7678	417.7678	0.0721	0.0000	419.5702

	ROG	NOx	CO	SO2	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	31.84	0.00	16.09	38.61	0.00	11.11	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	7-1-2014	9-30-2014	2.4726	2.4726
2	10-1-2014	12-31-2014	1.4826	1.4826
3	1-1-2015	3-31-2015	1.3692	1.3692

4	4-1-2015	6-30-2015	1.3736	1.3736
5	7-1-2015	9-30-2015	1.0620	1.0620
		Highest	2.4726	2.4726

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	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003
Energy	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	266.4233	266.4233	0.0116	2.6400e-003	267.4998
Mobile	0.9714	1.1297	9.4609	0.0205	1.9462	0.0171	1.9633	0.5179	0.0159	0.5337	0.0000	1,850.7139	1,850.7139	0.0820	0.0000	1,852.7633
Waste						0.0000	0.0000		0.0000	0.0000	11.9359	0.0000	11.9359	0.7054	0.0000	29.5706
Water						0.0000	0.0000		0.0000	0.0000	1.4676	9.1182	10.5858	5.4600e-003	3.2800e-003	11.6988
Total	1.2387	1.1445	9.4758	0.0206	1.9462	0.0182	1.9644	0.5179	0.0170	0.5349	13.4035	2,126.2600	2,139.6634	0.8045	5.9200e-003	2,161.5375

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	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003
Energy	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	266.4233	266.4233	0.0116	2.6400e-003	267.4998
Mobile	0.9714	1.1297	9.4609	0.0205	1.9462	0.0171	1.9633	0.5179	0.0159	0.5337	0.0000	1,850.7139	1,850.7139	0.0820	0.0000	1,852.7633

Waste						0.0000	0.0000		0.0000	0.0000	11.9359	0.0000	11.9359	0.7054	0.0000	29.5706
Water						0.0000	0.0000		0.0000	0.0000	1.4676	9.1182	10.5858	5.4600e-003	3.2800e-003	11.6988
Total	1.2387	1.1445	9.4758	0.0206	1.9462	0.0182	1.9644	0.5179	0.0170	0.5349	13.4035	2,126.2600	2,139.6634	0.8045	5.9200e-003	2,161.5375

	ROG	NOx	CO	SO2	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

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	7/1/2014	7/28/2014	5	20	
2	Site Preparation	Site Preparation	7/29/2014	8/11/2014	5	10	
3	Grading	Grading	8/12/2014	9/8/2014	5	20	
4	Building Construction	Building Construction	9/9/2014	7/27/2015	5	230	
5	Paving	Paving	7/28/2015	8/24/2015	5	20	
6	Architectural Coating	Architectural Coating	8/25/2015	9/21/2015	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 84,000; Non-Residential Outdoor: 28,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	407.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	2,850.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	43.00	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	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2014

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					0.0440	0.0000	0.0440	6.6700e-003	0.0000	6.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7141	36.7141	9.8900e-003	0.0000	36.9614
Total	0.0453	0.4796	0.2331	3.9000e-004	0.0440	0.0253	0.0693	6.6700e-003	0.0236	0.0302	0.0000	36.7141	36.7141	9.8900e-003	0.0000	36.9614

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	4.6300e-003	0.1087	0.0349	1.9000e-004	3.4000e-003	1.5000e-003	4.9100e-003	9.3000e-004	1.4400e-003	2.3700e-003	0.0000	18.4343	18.4343	2.0400e-003	0.0000	18.4854
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	5.4500e-003	0.1093	0.0412	2.0000e-004	4.5800e-003	1.5100e-003	6.1000e-003	1.2400e-003	1.4500e-003	2.6900e-003	0.0000	19.6091	19.6091	2.0800e-003	0.0000	19.6613

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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7140	36.7140	9.8900e-003	0.0000	36.9614
Total	0.0453	0.4796	0.2331	3.9000e-004	0.0188	0.0253	0.0441	2.8500e-003	0.0236	0.0264	0.0000	36.7140	36.7140	9.8900e-003	0.0000	36.9614

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	4.6300e-003	0.1087	0.0349	1.9000e-004	3.4000e-003	1.5000e-003	4.9100e-003	9.3000e-004	1.4400e-003	2.3700e-003	0.0000	18.4343	18.4343	2.0400e-003	0.0000	18.4854
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	5.4500e-003	0.1093	0.0412	2.0000e-004	4.5800e-003	1.5100e-003	6.1000e-003	1.2400e-003	1.4500e-003	2.6900e-003	0.0000	19.6091	19.6091	2.0800e-003	0.0000	19.6613

3.3 Site Preparation - 2014

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727

Total	0.0262	0.2790	0.1193	1.9000e-004	0.0903	0.0158	0.1061	0.0497	0.0145	0.0642	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055
Total	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055

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					0.0386	0.0000	0.0386	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
Total	0.0262	0.2790	0.1193	1.9000e-004	0.0386	0.0158	0.0544	0.0212	0.0145	0.0358	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055
Total	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055

3.4 Grading - 2014

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.3718	0.1731	3.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	28.6036	28.6036	8.4500e-003	0.0000	28.8149
Total	0.0330	0.3718	0.1731	3.0000e-004	0.0655	0.0201	0.0856	0.0337	0.0185	0.0522	0.0000	28.6036	28.6036	8.4500e-003	0.0000	28.8149

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	0.0324	0.7611	0.2443	1.3000e-003	0.0238	0.0105	0.0344	6.5400e-003	0.0101	0.0166	0.0000	129.0852	129.0852	0.0143	0.0000	129.4429
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	0.0332	0.7618	0.2506	1.3100e-003	0.0250	0.0106	0.0356	6.8500e-003	0.0101	0.0169	0.0000	130.2600	130.2600	0.0144	0.0000	130.6188

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					0.0280	0.0000	0.0280	0.0144	0.0000	0.0144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.3718	0.1731	3.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	28.6035	28.6035	8.4500e-003	0.0000	28.8149
Total	0.0330	0.3718	0.1731	3.0000e-004	0.0280	0.0201	0.0481	0.0144	0.0185	0.0329	0.0000	28.6035	28.6035	8.4500e-003	0.0000	28.8149

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	0.0324	0.7611	0.2443	1.3000e-003	0.0238	0.0105	0.0344	6.5400e-003	0.0101	0.0166	0.0000	129.0852	129.0852	0.0143	0.0000	129.4429
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	0.0332	0.7618	0.2506	1.3100e-003	0.0250	0.0106	0.0356	6.8500e-003	0.0101	0.0169	0.0000	130.2600	130.2600	0.0144	0.0000	130.6188

3.5 Building Construction - 2014

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	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1983	101.1983	0.0258	0.0000	101.8420
Total	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1983	101.1983	0.0258	0.0000	101.8420

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	0.0185	0.3355	0.1350	5.0000e-004	0.0115	5.4600e-003	0.0170	3.3200e-003	5.2200e-003	8.5500e-003	0.0000	48.9457	48.9457	4.8400e-003	0.0000	49.0667
Worker	0.0232	0.0185	0.1800	3.7000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	33.3953	33.3953	1.2700e-003	0.0000	33.4271
Total	0.0417	0.3541	0.3149	8.7000e-004	0.0451	5.7100e-003	0.0508	0.0123	5.4500e-003	0.0177	0.0000	82.3410	82.3410	6.1100e-003	0.0000	82.4938

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	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1982	101.1982	0.0258	0.0000	101.8419
Total	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1982	101.1982	0.0258	0.0000	101.8419

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	0.0185	0.3355	0.1350	5.0000e-004	0.0115	5.4600e-003	0.0170	3.3200e-003	5.2200e-003	8.5500e-003	0.0000	48.9457	48.9457	4.8400e-003	0.0000	49.0667
Worker	0.0232	0.0185	0.1800	3.7000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	33.3953	33.3953	1.2700e-003	0.0000	33.4271
Total	0.0417	0.3541	0.3149	8.7000e-004	0.0451	5.7100e-003	0.0508	0.0123	5.4500e-003	0.0177	0.0000	82.3410	82.3410	6.1100e-003	0.0000	82.4938

3.5 Building Construction - 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					
Off-Road	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3256	181.3256	0.0455	0.0000	182.4639

Total	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3256	181.3256	0.0455	0.0000	182.4639
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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	0.0269	0.5435	0.2145	9.0000e-004	0.0207	6.8700e-003	0.0276	6.0000e-003	6.5700e-003	0.0126	0.0000	87.7933	87.7933	8.3500e-003	0.0000	88.0021
Worker	0.0368	0.0286	0.2799	6.5000e-004	0.0606	4.2000e-004	0.0610	0.0161	3.8000e-004	0.0165	0.0000	58.7318	58.7318	1.9600e-003	0.0000	58.7809
Total	0.0637	0.5720	0.4944	1.5500e-003	0.0813	7.2900e-003	0.0886	0.0221	6.9500e-003	0.0291	0.0000	146.5251	146.5251	0.0103	0.0000	146.7830

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	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3254	181.3254	0.0455	0.0000	182.4637
Total	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3254	181.3254	0.0455	0.0000	182.4637

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	0.0269	0.5435	0.2145	9.0000e-004	0.0207	6.8700e-003	0.0276	6.0000e-003	6.5700e-003	0.0126	0.0000	87.7933	87.7933	8.3500e-003	0.0000	88.0021
Worker	0.0368	0.0286	0.2799	6.5000e-004	0.0606	4.2000e-004	0.0610	0.0161	3.8000e-004	0.0165	0.0000	58.7318	58.7318	1.9600e-003	0.0000	58.7809
Total	0.0637	0.5720	0.4944	1.5500e-003	0.0813	7.2900e-003	0.0886	0.0221	6.9500e-003	0.0291	0.0000	146.5251	146.5251	0.0103	0.0000	146.7830

3.6 Paving - 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					
Off-Road	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504

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	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457
Total	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457

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	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504

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	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457
Total	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457

3.7 Architectural Coating - 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					
Archit. Coating	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	0.3389	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616

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-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040
Total	1.0000e-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040

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	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	0.3389	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616

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-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040
Total	1.0000e-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040

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
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Category	tons/yr										MT/yr					
Mitigated	0.9714	1.1297	9.4609	0.0205	1.9462	0.0171	1.9633	0.5179	0.0159	0.5337	0.0000	1,850.7139	1,850.7139	0.0820	0.0000	1,852.7633
Unmitigated	0.9714	1.1297	9.4609	0.0205	1.9462	0.0171	1.9633	0.5179	0.0159	0.5337	0.0000	1,850.7139	1,850.7139	0.0820	0.0000	1,852.7633

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Strip Mall	3,590.72	4,202.24	2122.40	5,341,327	5,341,327
Total	3,590.72	4,202.24	2,122.40	5,341,327	5,341,327

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.519116	0.049029	0.235321	0.130359	0.018842	0.005865	0.019139	0.006107	0.003579	0.003526	0.008051	0.000385	0.000682
Strip Mall	0.619545	0.058514	0.280846	0.020000	0.003743	0.001165	0.003802	0.001213	0.000000	0.000000	0.011095	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	250.3458	250.3458	0.0113	2.3400e-003	251.3268
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	250.3458	250.3458	0.0113	2.3400e-003	251.3268
NaturalGas Mitigated	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
NaturalGas Unmitigated	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

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					
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
Strip Mall	301280	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
Total		1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

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					

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
Strip Mall	301280	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
Total		1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	180717	52.5726	2.3800e-003	4.9000e-004	52.7786
Strip Mall	679840	197.7733	8.9400e-003	1.8500e-003	198.5482
Total		250.3458	0.0113	2.3400e-003	251.3268

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	180717	52.5726	2.3800e-003	4.9000e-004	52.7786
Strip Mall	679840	197.7733	8.9400e-003	1.8500e-003	198.5482
Total		250.3458	0.0113	2.3400e-003	251.3268

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	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003
Unmitigated	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-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	0.0335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003
Total	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-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	0.0335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.4000e-004	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003
Total	0.2657	2.0000e-005	2.4500e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	5.0000e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.5858	5.4600e-003	3.2800e-003	11.6988
Unmitigated	10.5858	5.4600e-003	3.2800e-003	11.6988

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.14806 / 2.54236	10.5858	5.4600e- 003	3.2800e- 003	11.6988
Total		10.5858	5.4600e- 003	3.2800e- 003	11.6988

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.14806 / 2.54236	10.5858	5.4600e- 003	3.2800e- 003	11.6988
Total		10.5858	5.4600e- 003	3.2800e- 003	11.6988

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.9359	0.7054	0.0000	29.5706
Unmitigated	11.9359	0.7054	0.0000	29.5706

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	58.8	11.9359	0.7054	0.0000	29.5706
Total		11.9359	0.7054	0.0000	29.5706

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	58.8	11.9359	0.7054	0.0000	29.5706
Total		11.9359	0.7054	0.0000	29.5706

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Existing Charter Square 2019 - San Mateo County, Annual

Existing Charter Square 2019

San Mateo County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Parking Lot	205.36	1000sqft	4.71	205,360.00	0
Strip Mall	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	70
Climate Zone	5			Operational Year	2019
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - x

Land Use - x

Demolition -

Grading -

Vehicle Trips - ITE Trip Rates

Energy Use -

Water And Wastewater - See CalEEMod Assumptions

Construction Off-road Equipment Mitigation - See CalEEMod Assumptions

Fleet Mix - See CalEEMod Assumptions

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	9
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	15
tblFleetMix	HHD	6.2540e-003	1.2060e-003
tblFleetMix	LDA	0.50	0.60
tblFleetMix	LDT1	0.05	0.06
tblFleetMix	LDT2	0.25	0.30
tblFleetMix	LHD1	0.02	3.5070e-003
tblFleetMix	LHD2	6.3260e-003	1.2200e-003
tblFleetMix	MCY	8.5770e-003	0.01
tblFleetMix	MDV	0.13	0.02
tblFleetMix	MH	7.2200e-004	0.00
tblFleetMix	MHD	0.02	3.9860e-003
tblFleetMix	OBUS	3.8280e-003	0.00
tblFleetMix	SBUS	4.1800e-004	8.1000e-005
tblFleetMix	UBUS	3.3540e-003	0.00
tblProjectCharacteristics	OperationalYear	2018	2019
tblTripsAndVMT	HaulingTripNumber	0.00	2,850.00
tblVehicleTrips	ST_TR	42.04	75.04
tblVehicleTrips	SU_TR	20.43	37.90
tblVehicleTrips	WD_TR	44.32	64.12
tblWater	AerobicPercent	87.46	100.00
tblWater	AerobicPercent	87.46	100.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	SepticTankPercent	10.33	0.00
tblWater	SepticTankPercent	10.33	0.00

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					
2014	0.3446	3.6446	1.9147	4.3700e-003	0.2753	0.1706	0.4459	0.1106	0.1599	0.2704	0.0000	417.7681	417.7681	0.0721	0.0000	419.5704
2015	0.7059	3.0910	2.0709	3.8300e-003	0.0842	0.1812	0.2653	0.0229	0.1703	0.1931	0.0000	354.8398	354.8398	0.0627	0.0000	356.4085
Maximum	0.7059	3.6446	2.0709	4.3700e-003	0.2753	0.1812	0.4459	0.1106	0.1703	0.2704	0.0000	417.7681	417.7681	0.0721	0.0000	419.5704

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					
2014	0.3446	3.6446	1.9147	4.3700e-003	0.1608	0.1706	0.3314	0.0590	0.1599	0.2189	0.0000	417.7678	417.7678	0.0721	0.0000	419.5702
2015	0.7059	3.0910	2.0709	3.8300e-003	0.0842	0.1812	0.2653	0.0229	0.1703	0.1931	0.0000	354.8396	354.8396	0.0627	0.0000	356.4082
Maximum	0.7059	3.6446	2.0709	4.3700e-003	0.1608	0.1812	0.3314	0.0590	0.1703	0.2189	0.0000	417.7678	417.7678	0.0721	0.0000	419.5702

	ROG	NOx	CO	SO2	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	31.84	0.00	16.09	38.61	0.00	11.11	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	7-1-2014	9-30-2014	2.4726	2.4726
2	10-1-2014	12-31-2014	1.4826	1.4826
3	1-1-2015	3-31-2015	1.3692	1.3692

4	4-1-2015	6-30-2015	1.3736	1.3736
5	7-1-2015	9-30-2015	1.0620	1.0620
		Highest	2.4726	2.4726

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	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003
Energy	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	266.4233	266.4233	0.0116	2.6400e-003	267.4998
Mobile	0.8194	0.9300	7.8768	0.0194	1.9465	0.0162	1.9627	0.5180	0.0150	0.5330	0.0000	1,749.8950	1,749.8950	0.0729	0.0000	1,751.7174
Waste						0.0000	0.0000		0.0000	0.0000	11.9359	0.0000	11.9359	0.7054	0.0000	29.5706
Water						0.0000	0.0000		0.0000	0.0000	1.4676	9.1182	10.5858	5.4600e-003	3.2800e-003	11.6988
Total	1.0867	0.9448	7.8916	0.0194	1.9465	0.0173	1.9638	0.5180	0.0161	0.5342	13.4035	2,025.4412	2,038.8446	0.7954	5.9200e-003	2,060.4916

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	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003
Energy	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	266.4233	266.4233	0.0116	2.6400e-003	267.4998
Mobile	0.8194	0.9300	7.8768	0.0194	1.9465	0.0162	1.9627	0.5180	0.0150	0.5330	0.0000	1,749.8950	1,749.8950	0.0729	0.0000	1,751.7174

Waste						0.0000	0.0000		0.0000	0.0000	11.9359	0.0000	11.9359	0.7054	0.0000	29.5706
Water						0.0000	0.0000		0.0000	0.0000	1.4676	9.1182	10.5858	5.4600e-003	3.2800e-003	11.6988
Total	1.0867	0.9448	7.8916	0.0194	1.9465	0.0173	1.9638	0.5180	0.0161	0.5342	13.4035	2,025.4412	2,038.8446	0.7954	5.9200e-003	2,060.4916

	ROG	NOx	CO	SO2	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

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	7/1/2014	7/28/2014	5	20	
2	Site Preparation	Site Preparation	7/29/2014	8/11/2014	5	10	
3	Grading	Grading	8/12/2014	9/8/2014	5	20	
4	Building Construction	Building Construction	9/9/2014	7/27/2015	5	230	
5	Paving	Paving	7/28/2015	8/24/2015	5	20	
6	Architectural Coating	Architectural Coating	8/25/2015	9/21/2015	5	20	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 10

Acres of Paving: 4.71

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 84,000; Non-Residential Outdoor: 28,000; Striped Parking Area:

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40

Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	407.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	2,850.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	104.00	43.00	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	21.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2014

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					0.0440	0.0000	0.0440	6.6700e-003	0.0000	6.6700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7141	36.7141	9.8900e-003	0.0000	36.9614
Total	0.0453	0.4796	0.2331	3.9000e-004	0.0440	0.0253	0.0693	6.6700e-003	0.0236	0.0302	0.0000	36.7141	36.7141	9.8900e-003	0.0000	36.9614

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	4.6300e-003	0.1087	0.0349	1.9000e-004	3.4000e-003	1.5000e-003	4.9100e-003	9.3000e-004	1.4400e-003	2.3700e-003	0.0000	18.4343	18.4343	2.0400e-003	0.0000	18.4854
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	5.4500e-003	0.1093	0.0412	2.0000e-004	4.5800e-003	1.5100e-003	6.1000e-003	1.2400e-003	1.4500e-003	2.6900e-003	0.0000	19.6091	19.6091	2.0800e-003	0.0000	19.6613

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
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Category	tons/yr										MT/yr					
Fugitive Dust					0.0188	0.0000	0.0188	2.8500e-003	0.0000	2.8500e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0453	0.4796	0.2331	3.9000e-004		0.0253	0.0253		0.0236	0.0236	0.0000	36.7140	36.7140	9.8900e-003	0.0000	36.9614
Total	0.0453	0.4796	0.2331	3.9000e-004	0.0188	0.0253	0.0441	2.8500e-003	0.0236	0.0264	0.0000	36.7140	36.7140	9.8900e-003	0.0000	36.9614

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	4.6300e-003	0.1087	0.0349	1.9000e-004	3.4000e-003	1.5000e-003	4.9100e-003	9.3000e-004	1.4400e-003	2.3700e-003	0.0000	18.4343	18.4343	2.0400e-003	0.0000	18.4854
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	5.4500e-003	0.1093	0.0412	2.0000e-004	4.5800e-003	1.5100e-003	6.1000e-003	1.2400e-003	1.4500e-003	2.6900e-003	0.0000	19.6091	19.6091	2.0800e-003	0.0000	19.6613

3.3 Site Preparation - 2014

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					0.0903	0.0000	0.0903	0.0497	0.0000	0.0497	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727

Total	0.0262	0.2790	0.1193	1.9000e-004	0.0903	0.0158	0.1061	0.0497	0.0145	0.0642	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055
Total	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055

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					0.0386	0.0000	0.0386	0.0212	0.0000	0.0212	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0262	0.2790	0.1193	1.9000e-004		0.0158	0.0158		0.0145	0.0145	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727
Total	0.0262	0.2790	0.1193	1.9000e-004	0.0386	0.0158	0.0544	0.0212	0.0145	0.0358	0.0000	18.3372	18.3372	5.4200e-003	0.0000	18.4727

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055
Total	4.9000e-004	3.9000e-004	3.8000e-003	1.0000e-005	7.1000e-004	1.0000e-005	7.1000e-004	1.9000e-004	0.0000	1.9000e-004	0.0000	0.7049	0.7049	3.0000e-005	0.0000	0.7055

3.4 Grading - 2014

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					0.0655	0.0000	0.0655	0.0337	0.0000	0.0337	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.3718	0.1731	3.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	28.6036	28.6036	8.4500e-003	0.0000	28.8149
Total	0.0330	0.3718	0.1731	3.0000e-004	0.0655	0.0201	0.0856	0.0337	0.0185	0.0522	0.0000	28.6036	28.6036	8.4500e-003	0.0000	28.8149

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	0.0324	0.7611	0.2443	1.3000e-003	0.0238	0.0105	0.0344	6.5400e-003	0.0101	0.0166	0.0000	129.0852	129.0852	0.0143	0.0000	129.4429
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	0.0332	0.7618	0.2506	1.3100e-003	0.0250	0.0106	0.0356	6.8500e-003	0.0101	0.0169	0.0000	130.2600	130.2600	0.0144	0.0000	130.6188

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					0.0280	0.0000	0.0280	0.0144	0.0000	0.0144	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0330	0.3718	0.1731	3.0000e-004		0.0201	0.0201		0.0185	0.0185	0.0000	28.6035	28.6035	8.4500e-003	0.0000	28.8149
Total	0.0330	0.3718	0.1731	3.0000e-004	0.0280	0.0201	0.0481	0.0144	0.0185	0.0329	0.0000	28.6035	28.6035	8.4500e-003	0.0000	28.8149

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	0.0324	0.7611	0.2443	1.3000e-003	0.0238	0.0105	0.0344	6.5400e-003	0.0101	0.0166	0.0000	129.0852	129.0852	0.0143	0.0000	129.4429
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	8.2000e-004	6.5000e-004	6.3300e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1748	1.1748	4.0000e-005	0.0000	1.1759
Total	0.0332	0.7618	0.2506	1.3100e-003	0.0250	0.0106	0.0356	6.8500e-003	0.0101	0.0169	0.0000	130.2600	130.2600	0.0144	0.0000	130.6188

3.5 Building Construction - 2014

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	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1983	101.1983	0.0258	0.0000	101.8420
Total	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1983	101.1983	0.0258	0.0000	101.8420

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	0.0185	0.3355	0.1350	5.0000e-004	0.0115	5.4600e-003	0.0170	3.3200e-003	5.2200e-003	8.5500e-003	0.0000	48.9457	48.9457	4.8400e-003	0.0000	49.0667
Worker	0.0232	0.0185	0.1800	3.7000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	33.3953	33.3953	1.2700e-003	0.0000	33.4271
Total	0.0417	0.3541	0.3149	8.7000e-004	0.0451	5.7100e-003	0.0508	0.0123	5.4500e-003	0.0177	0.0000	82.3410	82.3410	6.1100e-003	0.0000	82.4938

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	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1982	101.1982	0.0258	0.0000	101.8419
Total	0.1592	1.2886	0.7786	1.1000e-003		0.0917	0.0917		0.0863	0.0863	0.0000	101.1982	101.1982	0.0258	0.0000	101.8419

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	0.0185	0.3355	0.1350	5.0000e-004	0.0115	5.4600e-003	0.0170	3.3200e-003	5.2200e-003	8.5500e-003	0.0000	48.9457	48.9457	4.8400e-003	0.0000	49.0667
Worker	0.0232	0.0185	0.1800	3.7000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	33.3953	33.3953	1.2700e-003	0.0000	33.4271
Total	0.0417	0.3541	0.3149	8.7000e-004	0.0451	5.7100e-003	0.0508	0.0123	5.4500e-003	0.0177	0.0000	82.3410	82.3410	6.1100e-003	0.0000	82.4938

3.5 Building Construction - 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					
Off-Road	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3256	181.3256	0.0455	0.0000	182.4639

Total	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3256	181.3256	0.0455	0.0000	182.4639
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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	0.0269	0.5435	0.2145	9.0000e-004	0.0207	6.8700e-003	0.0276	6.0000e-003	6.5700e-003	0.0126	0.0000	87.7933	87.7933	8.3500e-003	0.0000	88.0021
Worker	0.0368	0.0286	0.2799	6.5000e-004	0.0606	4.2000e-004	0.0610	0.0161	3.8000e-004	0.0165	0.0000	58.7318	58.7318	1.9600e-003	0.0000	58.7809
Total	0.0637	0.5720	0.4944	1.5500e-003	0.0813	7.2900e-003	0.0886	0.0221	6.9500e-003	0.0291	0.0000	146.5251	146.5251	0.0103	0.0000	146.7830

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	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3254	181.3254	0.0455	0.0000	182.4637
Total	0.2718	2.2348	1.3915	1.9900e-003		0.1572	0.1572		0.1478	0.1478	0.0000	181.3254	181.3254	0.0455	0.0000	182.4637

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	0.0269	0.5435	0.2145	9.0000e-004	0.0207	6.8700e-003	0.0276	6.0000e-003	6.5700e-003	0.0126	0.0000	87.7933	87.7933	8.3500e-003	0.0000	88.0021
Worker	0.0368	0.0286	0.2799	6.5000e-004	0.0606	4.2000e-004	0.0610	0.0161	3.8000e-004	0.0165	0.0000	58.7318	58.7318	1.9600e-003	0.0000	58.7809
Total	0.0637	0.5720	0.4944	1.5500e-003	0.0813	7.2900e-003	0.0886	0.0221	6.9500e-003	0.0291	0.0000	146.5251	146.5251	0.0103	0.0000	146.7830

3.6 Paving - 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					
Off-Road	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504

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	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457
Total	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457

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	0.0236	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504
Paving	6.1700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0298	0.2571	0.1529	2.3000e-004		0.0144	0.0144		0.0133	0.0133	0.0000	21.6885	21.6885	6.4700e-003	0.0000	21.8504

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	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457
Total	7.2000e-004	5.6000e-004	5.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	1.1447	1.1447	4.0000e-005	0.0000	1.1457

3.7 Architectural Coating - 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					
Archit. Coating	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	0.3389	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616

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-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040
Total	1.0000e-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040

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	0.3348					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.0700e-003	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616
Total	0.3389	0.0257	0.0190	3.0000e-005		2.2100e-003	2.2100e-003		2.2100e-003	2.2100e-003	0.0000	2.5533	2.5533	3.3000e-004	0.0000	2.5616

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-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040
Total	1.0000e-003	7.8000e-004	7.6400e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.6026	1.6026	5.0000e-005	0.0000	1.6040

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
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Category	tons/yr										MT/yr					
Mitigated	0.8194	0.9300	7.8768	0.0194	1.9465	0.0162	1.9627	0.5180	0.0150	0.5330	0.0000	1,749.8950	1,749.8950	0.0729	0.0000	1,751.7174
Unmitigated	0.8194	0.9300	7.8768	0.0194	1.9465	0.0162	1.9627	0.5180	0.0150	0.5330	0.0000	1,749.8950	1,749.8950	0.0729	0.0000	1,751.7174

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Parking Lot	0.00	0.00	0.00		
Strip Mall	3,590.72	4,202.24	2122.40	5,341,327	5,341,327
Total	3,590.72	4,202.24	2,122.40	5,341,327	5,341,327

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
Strip Mall	9.50	7.30	7.30	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Parking Lot	0.498968	0.049513	0.248277	0.134909	0.018184	0.006326	0.020670	0.006254	0.003828	0.003354	0.008577	0.000418	0.000722
Strip Mall	0.600017	0.059540	0.298557	0.020000	0.003507	0.001220	0.003986	0.001206	0.000000	0.000000	0.011886	0.000081	0.000000

5.0 Energy Detail

Historical Energy Use: Y

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	0.0000	250.3458	250.3458	0.0113	2.3400e-003	251.3268
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	250.3458	250.3458	0.0113	2.3400e-003	251.3268
NaturalGas Mitigated	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
NaturalGas Unmitigated	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

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					
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
Strip Mall	301280	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
Total		1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

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					

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
Strip Mall	301280	1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730
Total		1.6200e-003	0.0148	0.0124	9.0000e-005		1.1200e-003	1.1200e-003		1.1200e-003	1.1200e-003	0.0000	16.0775	16.0775	3.1000e-004	2.9000e-004	16.1730

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	180717	52.5726	2.3800e-003	4.9000e-004	52.7786
Strip Mall	679840	197.7733	8.9400e-003	1.8500e-003	198.5482
Total		250.3458	0.0113	2.3400e-003	251.3268

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Parking Lot	180717	52.5726	2.3800e-003	4.9000e-004	52.7786
Strip Mall	679840	197.7733	8.9400e-003	1.8500e-003	198.5482
Total		250.3458	0.0113	2.3400e-003	251.3268

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	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003
Unmitigated	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-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	0.0335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003
Total	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-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	0.0335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2320					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.3000e-004	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003
Total	0.2657	2.0000e-005	2.4300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	4.6700e-003	4.6700e-003	1.0000e-005	0.0000	4.9900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	10.5858	5.4600e-003	3.2800e-003	11.6988
Unmitigated	10.5858	5.4600e-003	3.2800e-003	11.6988

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			

Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.14806 / 2.54236	10.5858	5.4600e- 003	3.2800e- 003	11.6988
Total		10.5858	5.4600e- 003	3.2800e- 003	11.6988

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Strip Mall	4.14806 / 2.54236	10.5858	5.4600e- 003	3.2800e- 003	11.6988
Total		10.5858	5.4600e- 003	3.2800e- 003	11.6988

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	11.9359	0.7054	0.0000	29.5706
Unmitigated	11.9359	0.7054	0.0000	29.5706

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	58.8	11.9359	0.7054	0.0000	29.5706
Total		11.9359	0.7054	0.0000	29.5706

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	58.8	11.9359	0.7054	0.0000	29.5706
Total		11.9359	0.7054	0.0000	29.5706

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation
