



Memo

To: Jonathan Riker, Ervin Cohen & Jessup, LLP
CC:
From: Michael Brown, President
Date: September 7, 2018
Regarding: Evaluation of Greenhouse Gas Emissions With Soil Export for the York Residence Project

Cadence Environmental Consultants prepared a Greenhouse Gas Impact Analysis with a date of August 2018 for the proposed York Residence project. The Greenhouse Gas Impact Analysis identified the construction-related and operational greenhouse gas (GHG) emissions that would be generated by the proposed project and compared these with established standards, including the thresholds of significance recommended by the South Coast Air Quality Management District (SCAQMD). Project grading would excavate earth material from the proposed residential pad and transport it to a fill site on the property. Construction activities would also involve a 20-foot-wide private driveway/fire access from the western terminus of Innsdale Drive to the residential area. The analysis assumed that approximately 3.14 acres of the 40.46-acre site would be affected by ground work. This memorandum provides an analysis of the potential GHG emissions that would be generated during construction of the project if the excess soil was exported from the site rather than balanced on site.

Analysis

The estimated annual construction-related and operational GHG emissions associated with the proposed project were calculated for the Greenhouse Gas Impact Analysis utilizing the the California Emissions Estimator Model (CalEEMod v. 2016.3.2) recommended by the SCAQMD. The proposed balanced earthmoving activities are expected to involve the use of a large excavator, two D6 dozers, and a track loader. The specific types and number of equipment that would be used at the site for the other phases of construction are not known at this time, so the default equipment listed in CalEEMod were used for these phases with minor revisions to reflect the proposed single-residence use. The Greenhouse Gas Impact Analysis (Table 1 and Appendix A) showed that the proposed construction activities were estimated to generate 228.98 metric tons of carbon dioxide equivalents (MTCO_{2e}).



Not balancing the soil at the project site would result in the export of approximately 37,400 cubic yards of soil. For the purpose of this analysis, it is assumed that the exported earthmoving activities would involve the use of a large excavator, one D6 dozer, and a track loader (one less dozer than the proposed operations). The same default types and number of equipment that would be used at the site for the other phases of construction would be used for the proposed single-residence use. The export of 37,400 cubic yards of soil would require approximately 7,480 one-way hauling trips based on 3,740 trucks each hauling 10 cubic yards of soil. The CalEEMod sheets (page 4) attached to this memo indicate that the construction of the project with earth hauling would generate approximately 369.37 MTCO₂e. This is an increase of approximately 140.39 MTCO₂e over the proposed balanced earthwork. The entire increase would occur during the grading phase of development. The increase would also be slightly greater if the second D6 dozer was to be used at the site.

York Residence - Soil Export - Los Angeles-South Coast County, Annual

York Residence - Soil Export
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Other Asphalt Surfaces	3.83	1000sqft	0.09	3,829.00	0
Other Non-Asphalt Surfaces	12.08	1000sqft	0.28	12,079.00	0
Single Family Housing	1.00	Dwelling Unit	3.14	15,100.00	3

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	12			Operational Year	2020
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Project site is 40.46 acres. However, only about 3.14 acres would be affected by ground work.

Construction Phase - Default construction dates changed to reflect anticipated construction schedule.

Off-road Equipment - Architectural Coating Phase - default number of air compressors increased from 1 to 2.

Off-road Equipment - Building Construction Phase - default number of tractors/loaders/backhoes reduced from 3 to 1 due to only one home being constructed and most earthwork completed as part of the grading phase. Also, default number of forklifts reduced from 3 to 1.

Off-road Equipment - Grading Phase - Default equipment numbers changed to reflect proposed equipment mix of one 345 excavator, one D6 dozer, and one track loader.

Off-road Equipment -

Area Coating - Assumes no painting of private on-site driveway driveway.

Construction Off-road Equipment Mitigation - Assumes fugitive dust control (watering) in compliance with SCAQMD Rule 403.

Energy Mitigation - Assumes a minimum building energy efficiency of 15% per CalGreen Code requirements.

Water Mitigation - Assumes indoor water use reductions per CalGreen Code requirements.

Waste Mitigation -

Grading - Assumes 37,400 cubic yards of soil export.

Trips and VMT - Assumes 7,480 soil export truck trips (one way). Based on 3,740 trucks with 10 cubic yards capacity each.

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Table Name	Column Name	Default Value	New Value
tblAreaCoating	Area_Parking	954	0
tblConstructionPhase	NumDays	230.00	245.00
tblConstructionPhase	NumDays	8.00	75.00
tblGrading	AcresOfGrading	0.00	4.00
tblGrading	MaterialExported	0.00	37,400.00
tblLandUse	LandUseSquareFeet	3,830.00	3,829.00
tblLandUse	LandUseSquareFeet	12,080.00	12,079.00
tblLandUse	LandUseSquareFeet	1,800.00	15,100.00
tblLandUse	LotAcreage	0.32	3.14
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,480.00
tblTripsAndVMT	WorkerTripNumber	10.00	15.00

2.0 Emissions Summary

York Residence - Soil Export - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	9-3-2018	12-2-2018	1.7451	1.7451
2	12-3-2018	3-2-2019	0.6797	0.6797
3	3-3-2019	6-2-2019	0.5319	0.5319
4	6-3-2019	9-2-2019	0.6638	0.6638
5	9-3-2019	9-30-2019	0.1619	0.1619
		Highest	1.7451	1.7451

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	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.3000e-004	1.0000e-005	0.3381
Energy	1.6000e-004	1.3700e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	6.2350	6.2350	1.4000e-004	5.0000e-005	6.2540
Mobile	3.4400e-003	0.0178	0.0480	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4400e-003	0.0000	14.3956	14.3956	8.0000e-004	0.0000	14.4157
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0207	0.7267	0.7474	2.1400e-003	5.0000e-005	0.8169
Total	0.0675	0.0196	0.0654	1.9000e-004	0.0123	1.2800e-003	0.0135	3.2800e-003	1.2700e-003	4.5600e-003	0.3766	21.5787	21.9553	0.0182	1.1000e-004	22.4432

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2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.3000e-004	1.0000e-005	0.3381
Energy	1.4000e-004	1.2100e-003	5.2000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	5.8643	5.8643	1.3000e-004	5.0000e-005	5.8818
Mobile	3.4400e-003	0.0178	0.0480	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4400e-003	0.0000	14.3956	14.3956	8.0000e-004	0.0000	14.4157
Waste						0.0000	0.0000		0.0000	0.0000	0.2497	0.0000	0.2497	0.0148	0.0000	0.6186
Water						0.0000	0.0000		0.0000	0.0000	0.0165	0.6322	0.6487	1.7100e-003	4.0000e-005	0.7044
Total	0.0675	0.0194	0.0654	1.9000e-004	0.0123	1.2700e-003	0.0135	3.2800e-003	1.2600e-003	4.5500e-003	0.3724	21.1135	21.4859	0.0177	1.0000e-004	21.9586

	ROG	NOx	CO	SO2	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	0.03	0.82	0.09	0.00	0.00	0.78	0.07	0.00	0.79	0.22	1.10	2.16	2.14	2.42	9.09	2.16

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	9/3/2018	12/14/2018	5	75	
2	Building Construction	Building Construction	12/17/2018	11/22/2019	5	245	
3	Paving	Paving	8/1/2019	8/26/2019	5	18	
4	Architectural Coating	Architectural Coating	11/25/2019	12/18/2019	5	18	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 0.37

Residential Indoor: 30,578; Residential Outdoor: 10,193; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 954 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	2	6.00	132	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Architectural Coating	Air Compressors	2	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
Grading	4	15.00	0.00	7,480.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	7.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	1.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 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					0.4559	0.0000	0.4559	0.2488	0.0000	0.2488	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.6857	0.3746	6.3000e-004		0.0355	0.0355		0.0327	0.0327	0.0000	57.5791	57.5791	0.0179	0.0000	58.0272
Total	0.0646	0.6857	0.3746	6.3000e-004	0.4559	0.0355	0.4914	0.2488	0.0327	0.2815	0.0000	57.5791	57.5791	0.0179	0.0000	58.0272

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	0.0375	1.2491	0.2576	3.0100e-003	0.0643	4.6300e-003	0.0689	0.0177	4.4300e-003	0.0221	0.0000	294.9969	294.9969	0.0208	0.0000	295.5170
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1200e-003	2.6700e-003	0.0287	7.0000e-005	6.1600e-003	6.0000e-005	6.2200e-003	1.6400e-003	5.0000e-005	1.6900e-003	0.0000	6.1245	6.1245	2.3000e-004	0.0000	6.1302
Total	0.0406	1.2517	0.2863	3.0800e-003	0.0704	4.6900e-003	0.0751	0.0193	4.4800e-003	0.0238	0.0000	301.1214	301.1214	0.0210	0.0000	301.6472

York Residence - Soil Export - Los Angeles-South Coast County, Annual

3.2 Grading - 2018

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					0.1778	0.0000	0.1778	0.0970	0.0000	0.0970	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0646	0.6857	0.3746	6.3000e-004		0.0355	0.0355		0.0327	0.0327	0.0000	57.5790	57.5790	0.0179	0.0000	58.0271
Total	0.0646	0.6857	0.3746	6.3000e-004	0.1778	0.0355	0.2133	0.0970	0.0327	0.1297	0.0000	57.5790	57.5790	0.0179	0.0000	58.0271

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	0.0375	1.2491	0.2576	3.0100e-003	0.0643	4.6300e-003	0.0689	0.0177	4.4300e-003	0.0221	0.0000	294.9969	294.9969	0.0208	0.0000	295.5170
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.1200e-003	2.6700e-003	0.0287	7.0000e-005	6.1600e-003	6.0000e-005	6.2200e-003	1.6400e-003	5.0000e-005	1.6900e-003	0.0000	6.1245	6.1245	2.3000e-004	0.0000	6.1302
Total	0.0406	1.2517	0.2863	3.0800e-003	0.0704	4.6900e-003	0.0751	0.0193	4.4800e-003	0.0238	0.0000	301.1214	301.1214	0.0210	0.0000	301.6472

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3.3 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	0.0102	0.0860	0.0609	1.0000e-004		5.0700e-003	5.0700e-003		4.8300e-003	4.8300e-003	0.0000	8.8115	8.8115	1.8800e-003	0.0000	8.8584
Total	0.0102	0.0860	0.0609	1.0000e-004		5.0700e-003	5.0700e-003		4.8300e-003	4.8300e-003	0.0000	8.8115	8.8115	1.8800e-003	0.0000	8.8584

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	8.0000e-005	2.0700e-003	5.8000e-004	0.0000	1.0000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4169	0.4169	3.0000e-005	0.0000	0.4176
Worker	2.1000e-004	1.8000e-004	1.9600e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4192	0.4192	2.0000e-005	0.0000	0.4196
Total	2.9000e-004	2.2500e-003	2.5400e-003	0.0000	5.2000e-004	1.0000e-005	5.5000e-004	1.4000e-004	1.0000e-005	1.6000e-004	0.0000	0.8361	0.8361	5.0000e-005	0.0000	0.8372

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3.3 Building Construction - 2018

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	0.0102	0.0860	0.0609	1.0000e-004		5.0700e-003	5.0700e-003		4.8300e-003	4.8300e-003	0.0000	8.8115	8.8115	1.8800e-003	0.0000	8.8584
Total	0.0102	0.0860	0.0609	1.0000e-004		5.0700e-003	5.0700e-003		4.8300e-003	4.8300e-003	0.0000	8.8115	8.8115	1.8800e-003	0.0000	8.8584

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	8.0000e-005	2.0700e-003	5.8000e-004	0.0000	1.0000e-004	1.0000e-005	1.2000e-004	3.0000e-005	1.0000e-005	4.0000e-005	0.0000	0.4169	0.4169	3.0000e-005	0.0000	0.4176
Worker	2.1000e-004	1.8000e-004	1.9600e-003	0.0000	4.2000e-004	0.0000	4.3000e-004	1.1000e-004	0.0000	1.2000e-004	0.0000	0.4192	0.4192	2.0000e-005	0.0000	0.4196
Total	2.9000e-004	2.2500e-003	2.5400e-003	0.0000	5.2000e-004	1.0000e-005	5.5000e-004	1.4000e-004	1.0000e-005	1.6000e-004	0.0000	0.8361	0.8361	5.0000e-005	0.0000	0.8372

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3.3 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	0.1912	1.6534	1.2573	2.1600e-003		0.0931	0.0931		0.0887	0.0887	0.0000	185.8247	185.8247	0.0388	0.0000	186.7941
Total	0.1912	1.6534	1.2573	2.1600e-003		0.0931	0.0931		0.0887	0.0887	0.0000	185.8247	185.8247	0.0388	0.0000	186.7941

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	1.4900e-003	0.0415	0.0113	9.0000e-005	2.2100e-003	2.6000e-004	2.4700e-003	6.4000e-004	2.5000e-004	8.9000e-004	0.0000	8.7773	8.7773	5.9000e-004	0.0000	8.7919
Worker	4.1000e-003	3.4200e-003	0.0372	1.0000e-004	8.9700e-003	8.0000e-005	9.0500e-003	2.3800e-003	7.0000e-005	2.4600e-003	0.0000	8.6270	8.6270	3.0000e-004	0.0000	8.6344
Total	5.5900e-003	0.0449	0.0485	1.9000e-004	0.0112	3.4000e-004	0.0115	3.0200e-003	3.2000e-004	3.3500e-003	0.0000	17.4043	17.4043	8.9000e-004	0.0000	17.4263

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3.3 Building Construction - 2019

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	0.1912	1.6534	1.2573	2.1600e-003		0.0931	0.0931		0.0887	0.0887	0.0000	185.8245	185.8245	0.0388	0.0000	186.7938
Total	0.1912	1.6534	1.2573	2.1600e-003		0.0931	0.0931		0.0887	0.0887	0.0000	185.8245	185.8245	0.0388	0.0000	186.7938

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	1.4900e-003	0.0415	0.0113	9.0000e-005	2.2100e-003	2.6000e-004	2.4700e-003	6.4000e-004	2.5000e-004	8.9000e-004	0.0000	8.7773	8.7773	5.9000e-004	0.0000	8.7919
Worker	4.1000e-003	3.4200e-003	0.0372	1.0000e-004	8.9700e-003	8.0000e-005	9.0500e-003	2.3800e-003	7.0000e-005	2.4600e-003	0.0000	8.6270	8.6270	3.0000e-004	0.0000	8.6344
Total	5.5900e-003	0.0449	0.0485	1.9000e-004	0.0112	3.4000e-004	0.0115	3.0200e-003	3.2000e-004	3.3500e-003	0.0000	17.4043	17.4043	8.9000e-004	0.0000	17.4263

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3.4 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	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0115	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658

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	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977
Total	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977

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3.4 Paving - 2019

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	0.0114	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658
Paving	1.2000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0115	0.1148	0.1108	1.7000e-004		6.4800e-003	6.4800e-003		5.9700e-003	5.9700e-003	0.0000	15.0501	15.0501	4.6300e-003	0.0000	15.1658

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	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977
Total	9.0000e-004	7.5000e-004	8.1700e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	2.0000e-005	5.4000e-004	0.0000	1.8960	1.8960	7.0000e-005	0.0000	1.8977

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3.5 Architectural Coating - 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					
Archit. Coating	0.0495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-003	0.0330	0.0331	5.0000e-005		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	4.5959	4.5959	3.9000e-004	0.0000	4.6056
Total	0.0543	0.0330	0.0331	5.0000e-005		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	4.5959	4.5959	3.9000e-004	0.0000	4.6056

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0948	0.0948	0.0000	0.0000	0.0949
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0948	0.0948	0.0000	0.0000	0.0949

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3.5 Architectural Coating - 2019

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	0.0495					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8000e-003	0.0330	0.0331	5.0000e-005		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	4.5959	4.5959	3.9000e-004	0.0000	4.6056
Total	0.0543	0.0330	0.0331	5.0000e-005		2.3200e-003	2.3200e-003		2.3200e-003	2.3200e-003	0.0000	4.5959	4.5959	3.9000e-004	0.0000	4.6056

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	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0948	0.0948	0.0000	0.0000	0.0949
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0948	0.0948	0.0000	0.0000	0.0949

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.4400e-003	0.0178	0.0480	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4400e-003	0.0000	14.3956	14.3956	8.0000e-004	0.0000	14.4157
Unmitigated	3.4400e-003	0.0178	0.0480	1.6000e-004	0.0123	1.6000e-004	0.0124	3.2800e-003	1.5000e-004	3.4400e-003	0.0000	14.3956	14.3956	8.0000e-004	0.0000	14.4157

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Asphalt Surfaces	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	9.52	9.91	8.62	32,282	32,282

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

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4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Other Non-Asphalt Surfaces	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907
Single Family Housing	0.547726	0.045437	0.201480	0.122768	0.016614	0.006090	0.019326	0.029174	0.002438	0.002359	0.005005	0.000677	0.000907

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Install High Efficiency Lighting

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.4611	4.4611	1.1000e-004	2.0000e-005	4.4702
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.6433	4.6433	1.1000e-004	2.0000e-005	4.6528
NaturalGas Mitigated	1.4000e-004	1.2100e-003	5.2000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4032	1.4032	3.0000e-005	3.0000e-005	1.4116
NaturalGas Unmitigated	1.6000e-004	1.3700e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5917	1.5917	3.0000e-005	3.0000e-005	1.6012

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5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
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
Single Family Housing	29827.4	1.6000e-004	1.3700e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5917	1.5917	3.0000e-005	3.0000e-005	1.6012
Total		1.6000e-004	1.3700e-003	5.8000e-004	1.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	1.5917	1.5917	3.0000e-005	3.0000e-005	1.6012

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					
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
Single Family Housing	26295.4	1.4000e-004	1.2100e-003	5.2000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4032	1.4032	3.0000e-005	3.0000e-005	1.4116
Total		1.4000e-004	1.2100e-003	5.2000e-004	1.0000e-005		1.0000e-004	1.0000e-004		1.0000e-004	1.0000e-004	0.0000	1.4032	1.4032	3.0000e-005	3.0000e-005	1.4116

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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
Single Family Housing	8336.84	4.6433	1.1000e-004	2.0000e-005	4.6528
Total		4.6433	1.1000e-004	2.0000e-005	4.6528

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
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
Single Family Housing	8009.71	4.4611	1.1000e-004	2.0000e-005	4.4702
Total		4.4611	1.1000e-004	2.0000e-005	4.4702

6.0 Area Detail

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6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.3000e-004	1.0000e-005	0.3381
Unmitigated	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.3000e-004	1.0000e-005	0.3381

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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	4.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2800e-003	2.6000e-004	6.3600e-003	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.1062	0.2041	0.3103	3.2000e-004	1.0000e-005	0.3204
Landscaping	3.3000e-004	1.2000e-004	0.0106	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0177
Total	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.4000e-004	1.0000e-005	0.3381

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	4.7200e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0556					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	3.2800e-003	2.6000e-004	6.3600e-003	2.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.1062	0.2041	0.3103	3.2000e-004	1.0000e-005	0.3204
Landscaping	3.3000e-004	1.2000e-004	0.0106	0.0000		6.0000e-005	6.0000e-005		6.0000e-005	6.0000e-005	0.0000	0.0172	0.0172	2.0000e-005	0.0000	0.0177
Total	0.0639	3.8000e-004	0.0169	2.0000e-005		1.0100e-003	1.0100e-003		1.0100e-003	1.0100e-003	0.1062	0.2214	0.3276	3.4000e-004	1.0000e-005	0.3381

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

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.6487	1.7100e-003	4.0000e-005	0.7044
Unmitigated	0.7474	2.1400e-003	5.0000e-005	0.8169

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Single Family Housing	0.065154 / 0.0410754	0.7474	2.1400e-003	5.0000e-005	0.8169
Total		0.7474	2.1400e-003	5.0000e-005	0.8169

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7.2 Water by Land Use**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
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
Single Family Housing	0.0521232 / 0.0410754	0.6487	1.7100e-003	4.0000e-005	0.7044
Total		0.6487	1.7100e-003	4.0000e-005	0.7044

8.0 Waste Detail**8.1 Mitigation Measures Waste**

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.2497	0.0148	0.0000	0.6186
Unmitigated	0.2497	0.0148	0.0000	0.6186

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
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
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		0.2497	0.0148	0.0000	0.6186

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8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
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
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		0.2497	0.0148	0.0000	0.6186

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
