

Appendix E:
Greenhouse Gas Emissions Worksheets

**Santa Paula River Rock
Ventura County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	54.00	Dwelling Unit	9.70	97,200.00	165

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	31
Climate Zone	8			Operational Year	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	630.89	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total developed lot area = 9.7 (19.27 total acres less 9.56 acres reserved for open space)

Construction Phase - Approximate construction schedule per applicant's info.

Grading - 9.7 acres disturbed per tract map.

Demolition - Square footage of 3 outbuildings to be demolished estimated per area of buiding footprints. Assessor's data does not specify sf of development.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation - Energy Star Appliances to be provided.

Water Mitigation - Incorporates water conservation mitigation measures to be conditioned as part of approval.

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	125.00
tblConstructionPhase	NumDays	230.00	310.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	20.00	65.00
tblConstructionPhase	NumDays	20.00	40.00
tblGrading	AcresOfGrading	32.50	9.70
tblLandUse	LotAcreage	17.53	9.70
tblProjectCharacteristics	OperationalYear	2014	2018

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.3119	3.0164	2.0976	2.5400e-003	0.3059	0.1789	0.4848	0.1614	0.1662	0.3275	0.0000	235.5342	235.5342	0.0623	0.0000	236.8418
2016	0.4550	3.7821	2.5980	3.8800e-003	0.0248	0.2553	0.2801	6.6800e-003	0.2397	0.2464	0.0000	347.6179	347.6179	0.0795	0.0000	349.2878
2017	0.5470	0.4632	0.3710	5.9000e-004	3.9500e-003	0.0291	0.0330	1.0500e-003	0.0276	0.0287	0.0000	52.4215	52.4215	0.0120	0.0000	52.6734
Total	1.3139	7.2616	5.0667	7.0100e-003	0.3346	0.4633	0.7979	0.1691	0.4335	0.6026	0.0000	635.5736	635.5736	0.1538	0.0000	638.8030

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2015	0.3119	3.0164	2.0976	2.5400e-003	0.1441	0.1789	0.3230	0.0743	0.1662	0.2405	0.0000	235.5339	235.5339	0.0623	0.0000	236.8416
2016	0.4550	3.7821	2.5980	3.8800e-003	0.0248	0.2553	0.2801	6.6800e-003	0.2397	0.2464	0.0000	347.6176	347.6176	0.0795	0.0000	349.2874
2017	0.5470	0.4632	0.3710	5.9000e-004	3.9500e-003	0.0291	0.0330	1.0500e-003	0.0276	0.0287	0.0000	52.4214	52.4214	0.0120	0.0000	52.6733
Total	1.3139	7.2616	5.0667	7.0100e-003	0.1728	0.4633	0.6361	0.0821	0.4335	0.5156	0.0000	635.5729	635.5729	0.1538	0.0000	638.8023

	ROG	NOx	CO	SO2	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	48.36	0.00	20.28	51.47	0.00	14.44	0.00	0.00	0.00	0.01	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686
Energy	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	192.7888	192.7888	6.6300e-003	2.5700e-003	193.7241
Mobile	0.2785	0.7139	2.8578	7.3200e-003	0.5361	8.7800e-003	0.5449	0.1431	8.0900e-003	0.1512	0.0000	545.4501	545.4501	0.0209	0.0000	545.8888
Waste						0.0000	0.0000		0.0000	0.0000	13.7323	0.0000	13.7323	0.8116	0.0000	30.7751
Water						0.0000	0.0000		0.0000	0.0000	1.1162	20.1618	21.2780	0.1156	2.9000e-003	24.6036
Total	0.7284	0.7904	3.2921	7.8000e-003	0.5361	0.0168	0.5529	0.1431	0.0161	0.1592	14.8485	759.0557	773.9042	0.9553	5.4700e-003	795.6601

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	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686
Energy	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	189.2073	189.2073	6.4700e-003	2.5300e-003	190.1285
Mobile	0.2785	0.7139	2.8578	7.3200e-003	0.5361	8.7800e-003	0.5449	0.1431	8.0900e-003	0.1512	0.0000	545.4501	545.4501	0.0209	0.0000	545.8888
Waste						0.0000	0.0000		0.0000	0.0000	6.8662	0.0000	6.8662	0.4058	0.0000	15.3875
Water						0.0000	0.0000		0.0000	0.0000	0.8930	15.7654	16.6584	0.0924	2.3200e-003	19.3175
Total	0.7284	0.7904	3.2921	7.8000e-003	0.5361	0.0168	0.5529	0.1431	0.0161	0.1592	7.7591	751.0778	758.8369	0.5262	4.8500e-003	771.3909

	ROG	NOx	CO	SO2	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	47.74	1.05	1.95	44.91	11.33	3.05

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	6/1/2015	6/30/2015	5	22	
2	Site Preparation	Site Preparation	7/1/2015	7/14/2015	5	10	
3	Grading	Grading	7/15/2015	10/13/2015	5	65	
4	Building Construction	Building Construction	10/14/2015	12/20/2016	5	310	
5	Paving	Paving	12/21/2016	2/14/2017	5	40	
6	Architectural Coating	Architectural Coating	2/15/2017	8/8/2017	5	125	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 9.7

Acres of Paving: 0

Residential Indoor: 196,830; Residential Outdoor: 65,610; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Excavators	3	8.00	162	0.38
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Excavators	1	8.00	162	0.38
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Paving	Pavers	2	8.00	125	0.42
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Paving	Paving Equipment	2	8.00	130	0.36
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	28.00	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	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	19.00	6.00	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	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					3.0100e-003	0.0000	3.0100e-003	4.6000e-004	0.0000	4.6000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0496	0.5320	0.3968	4.4000e-004		0.0270	0.0270		0.0251	0.0251	0.0000	41.1854	41.1854	0.0112	0.0000	41.4199
Total	0.0496	0.5320	0.3968	4.4000e-004	3.0100e-003	0.0270	0.0300	4.6000e-004	0.0251	0.0256	0.0000	41.1854	41.1854	0.0112	0.0000	41.4199

3.2 Demolition - 2015**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	4.9500e-003	3.3800e-003	1.0000e-005	2.4000e-004	8.0000e-005	3.2000e-004	7.0000e-005	8.0000e-005	1.4000e-004	0.0000	0.9329	0.9329	1.0000e-005	0.0000	0.9330
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	7.8000e-004	7.7900e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2182	1.2182	7.0000e-005	0.0000	1.2196
Total	9.2000e-004	5.7300e-003	0.0112	3.0000e-005	1.5700e-003	9.0000e-005	1.6600e-003	4.2000e-004	9.0000e-005	5.0000e-004	0.0000	2.1511	2.1511	8.0000e-005	0.0000	2.1527

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					1.3600e-003	0.0000	1.3600e-003	2.1000e-004	0.0000	2.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0496	0.5320	0.3968	4.4000e-004		0.0270	0.0270		0.0251	0.0251	0.0000	41.1854	41.1854	0.0112	0.0000	41.4198
Total	0.0496	0.5320	0.3968	4.4000e-004	1.3600e-003	0.0270	0.0283	2.1000e-004	0.0251	0.0254	0.0000	41.1854	41.1854	0.0112	0.0000	41.4198

3.2 Demolition - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.8000e-004	4.9500e-003	3.3800e-003	1.0000e-005	2.4000e-004	8.0000e-005	3.2000e-004	7.0000e-005	8.0000e-005	1.4000e-004	0.0000	0.9329	0.9329	1.0000e-005	0.0000	0.9330
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	6.4000e-004	7.8000e-004	7.7900e-003	2.0000e-005	1.3300e-003	1.0000e-005	1.3400e-003	3.5000e-004	1.0000e-005	3.6000e-004	0.0000	1.2182	1.2182	7.0000e-005	0.0000	1.2196
Total	9.2000e-004	5.7300e-003	0.0112	3.0000e-005	1.5700e-003	9.0000e-005	1.6600e-003	4.2000e-004	9.0000e-005	5.0000e-004	0.0000	2.1511	2.1511	8.0000e-005	0.0000	2.1527

3.3 Site Preparation - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					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	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0903	0.0154	0.1058	0.0497	0.0142	0.0639	0.0000	18.6506	18.6506	5.5700e-003	0.0000	18.7675

3.3 Site Preparation - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.3000e-004	4.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6645	0.6645	4.0000e-005	0.0000	0.6653	
Total	3.5000e-004	4.3000e-004	4.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6645	0.6645	4.0000e-005	0.0000	0.6653	

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					0.0407	0.0000	0.0407	0.0223	0.0000	0.0223	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0263	0.2845	0.2132	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675
Total	0.0263	0.2845	0.2132	2.0000e-004	0.0407	0.0154	0.0561	0.0223	0.0142	0.0366	0.0000	18.6505	18.6505	5.5700e-003	0.0000	18.7675

3.3 Site Preparation - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.5000e-004	4.3000e-004	4.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6645	0.6645	4.0000e-005	0.0000	0.6653
Total	3.5000e-004	4.3000e-004	4.2500e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6645	0.6645	4.0000e-005	0.0000	0.6653

3.4 Grading - 2015

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2009	0.0000	0.2009	0.1081	0.0000	0.1081	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1246	1.3135	0.8669	9.7000e-004		0.0757	0.0757		0.0696	0.0696	0.0000	92.2544	92.2544	0.0275	0.0000	92.8327
Total	0.1246	1.3135	0.8669	9.7000e-004	0.2009	0.0757	0.2765	0.1081	0.0696	0.1778	0.0000	92.2544	92.2544	0.0275	0.0000	92.8327

3.4 Grading - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-003	2.3000e-003	0.0230	5.0000e-005	3.9300e-003	3.0000e-005	3.9600e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.5993	3.5993	2.0000e-004	0.0000	3.6034	
Total	1.9000e-003	2.3000e-003	0.0230	5.0000e-005	3.9300e-003	3.0000e-005	3.9600e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.5993	3.5993	2.0000e-004	0.0000	3.6034	

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					0.0904	0.0000	0.0904	0.0487	0.0000	0.0487	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1246	1.3135	0.8669	9.7000e-004		0.0757	0.0757		0.0696	0.0696	0.0000	92.2542	92.2542	0.0275	0.0000	92.8326
Total	0.1246	1.3135	0.8669	9.7000e-004	0.0904	0.0757	0.1661	0.0487	0.0696	0.1183	0.0000	92.2542	92.2542	0.0275	0.0000	92.8326

3.4 Grading - 2015

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	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	1.9000e-003	2.3000e-003	0.0230	5.0000e-005	3.9300e-003	3.0000e-005	3.9600e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.5993	3.5993	2.0000e-004	0.0000	3.6034
Total	1.9000e-003	2.3000e-003	0.0230	5.0000e-005	3.9300e-003	3.0000e-005	3.9600e-003	1.0400e-003	3.0000e-005	1.0700e-003	0.0000	3.5993	3.5993	2.0000e-004	0.0000	3.6034

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	0.1043	0.8559	0.5342	7.6000e-004		0.0603	0.0603		0.0567	0.0567	0.0000	69.5384	69.5384	0.0175	0.0000	69.9048
Total	0.1043	0.8559	0.5342	7.6000e-004		0.0603	0.0603		0.0567	0.0567	0.0000	69.5384	69.5384	0.0175	0.0000	69.9048

3.5 Building Construction - 2015

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0196	0.0225	4.0000e-005	1.1100e-003	3.4000e-004	1.4500e-003	3.1000e-004	3.1000e-004	6.3000e-004	0.0000	3.4925	3.4925	3.0000e-005	0.0000	0.0000	3.4930
Worker	2.1100e-003	2.5600e-003	0.0256	5.0000e-005	4.3700e-003	4.0000e-005	4.4000e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.9980	3.9980	2.2000e-004	0.0000	0.0000	4.0026
Total	3.9300e-003	0.0221	0.0481	9.0000e-005	5.4800e-003	3.8000e-004	5.8500e-003	1.4700e-003	3.4000e-004	1.8200e-003	0.0000	7.4905	7.4905	2.5000e-004	0.0000	0.0000	7.4956

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	0.1043	0.8559	0.5342	7.6000e-004		0.0603	0.0603		0.0567	0.0567	0.0000	69.5383	69.5383	0.0175	0.0000	69.9047
Total	0.1043	0.8559	0.5342	7.6000e-004		0.0603	0.0603		0.0567	0.0567	0.0000	69.5383	69.5383	0.0175	0.0000	69.9047

3.5 Building Construction - 2015**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.8200e-003	0.0196	0.0225	4.0000e-005	1.1100e-003	3.4000e-004	1.4500e-003	3.1000e-004	3.1000e-004	6.3000e-004	0.0000	3.4925	3.4925	3.0000e-005	0.0000	3.4930
Worker	2.1100e-003	2.5600e-003	0.0256	5.0000e-005	4.3700e-003	4.0000e-005	4.4000e-003	1.1600e-003	3.0000e-005	1.1900e-003	0.0000	3.9980	3.9980	2.2000e-004	0.0000	4.0026
Total	3.9300e-003	0.0221	0.0481	9.0000e-005	5.4800e-003	3.8000e-004	5.8500e-003	1.4700e-003	3.4000e-004	1.8200e-003	0.0000	7.4905	7.4905	2.5000e-004	0.0000	7.4956

3.5 Building Construction - 2016**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.4309	3.6061	2.3411	3.3900e-003		0.2489	0.2489		0.2338	0.2338	0.0000	306.3243	306.3243	0.0760	0.0000	307.9197
Total	0.4309	3.6061	2.3411	3.3900e-003		0.2489	0.2489		0.2338	0.2338	0.0000	306.3243	306.3243	0.0760	0.0000	307.9197

3.5 Building Construction - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0900e-003	0.0760	0.0932	1.7000e-004	4.9100e-003	1.2200e-003	6.1300e-003	1.4000e-003	1.1200e-003	2.5200e-003	0.0000	15.3435	15.3435	1.0000e-004	0.0000	15.3457
Worker	8.4800e-003	0.0102	0.1019	2.3000e-004	0.0194	1.5000e-004	0.0195	5.1500e-003	1.4000e-004	5.2900e-003	0.0000	17.1173	17.1173	8.8000e-004	0.0000	17.1358
Total	0.0156	0.0862	0.1951	4.0000e-004	0.0243	1.3700e-003	0.0257	6.5500e-003	1.2600e-003	7.8100e-003	0.0000	32.4608	32.4608	9.8000e-004	0.0000	32.4815

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	0.4309	3.6061	2.3411	3.3900e-003		0.2489	0.2489		0.2338	0.2338	0.0000	306.3239	306.3239	0.0760	0.0000	307.9194
Total	0.4309	3.6061	2.3411	3.3900e-003		0.2489	0.2489		0.2338	0.2338	0.0000	306.3239	306.3239	0.0760	0.0000	307.9194

3.5 Building Construction - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.0900e-003	0.0760	0.0932	1.7000e-004	4.9100e-003	1.2200e-003	6.1300e-003	1.4000e-003	1.1200e-003	2.5200e-003	0.0000	15.3435	15.3435	1.0000e-004	0.0000	15.3457
Worker	8.4800e-003	0.0102	0.1019	2.3000e-004	0.0194	1.5000e-004	0.0195	5.1500e-003	1.4000e-004	5.2900e-003	0.0000	17.1173	17.1173	8.8000e-004	0.0000	17.1358
Total	0.0156	0.0862	0.1951	4.0000e-004	0.0243	1.3700e-003	0.0257	6.5500e-003	1.2600e-003	7.8100e-003	0.0000	32.4608	32.4608	9.8000e-004	0.0000	32.4815

3.6 Paving - 2016

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	8.3600e-003	0.0895	0.0593	9.0000e-005		5.0400e-003	5.0400e-003		4.6400e-003	4.6400e-003	0.0000	8.4055	8.4055	2.5400e-003	0.0000	8.4588
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.3600e-003	0.0895	0.0593	9.0000e-005		5.0400e-003	5.0400e-003		4.6400e-003	4.6400e-003	0.0000	8.4055	8.4055	2.5400e-003	0.0000	8.4588

3.6 Paving - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.5000e-004	2.5400e-003	1.0000e-005	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	2.0000e-005	0.0000	0.4278
Total	2.1000e-004	2.5000e-004	2.5400e-003	1.0000e-005	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	2.0000e-005	0.0000	0.4278

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	8.3600e-003	0.0895	0.0593	9.0000e-005		5.0400e-003	5.0400e-003		4.6400e-003	4.6400e-003	0.0000	8.4055	8.4055	2.5400e-003	0.0000	8.4588
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	8.3600e-003	0.0895	0.0593	9.0000e-005		5.0400e-003	5.0400e-003		4.6400e-003	4.6400e-003	0.0000	8.4055	8.4055	2.5400e-003	0.0000	8.4588

3.6 Paving - 2016**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	2.5000e-004	2.5400e-003	1.0000e-005	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	2.0000e-005	0.0000	0.4278
Total	2.1000e-004	2.5000e-004	2.5400e-003	1.0000e-005	4.8000e-004	0.0000	4.9000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4273	0.4273	2.0000e-005	0.0000	0.4278

3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0305	0.3247	0.2356	3.6000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	33.1095	33.1095	0.0101	0.0000	33.3225
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0305	0.3247	0.2356	3.6000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	33.1095	33.1095	0.0101	0.0000	33.3225

3.6 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	9.2000e-004	9.1300e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.6429	1.6429	8.0000e-005	0.0000	1.6446	
Total	7.6000e-004	9.2000e-004	9.1300e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.6429	1.6429	8.0000e-005	0.0000	1.6446	

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	0.0305	0.3247	0.2356	3.6000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	33.1094	33.1094	0.0101	0.0000	33.3225
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0305	0.3247	0.2356	3.6000e-004		0.0182	0.0182		0.0168	0.0168	0.0000	33.1094	33.1094	0.0101	0.0000	33.3225

3.6 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.6000e-004	9.2000e-004	9.1300e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.6429	1.6429	8.0000e-005	0.0000	1.6446
Total	7.6000e-004	9.2000e-004	9.1300e-003	2.0000e-005	1.9400e-003	1.0000e-005	1.9500e-003	5.1000e-004	1.0000e-005	5.3000e-004	0.0000	1.6429	1.6429	8.0000e-005	0.0000	1.6446

3.7 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.4942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.1366	0.1168	1.9000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	15.9578	15.9578	1.6800e-003	0.0000	15.9932
Total	0.5149	0.1366	0.1168	1.9000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	15.9578	15.9578	1.6800e-003	0.0000	15.9932

3.7 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	9.5000e-004	9.5100e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.7113	1.7113	8.0000e-005	0.0000	1.7131	
Total	8.0000e-004	9.5000e-004	9.5100e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.7113	1.7113	8.0000e-005	0.0000	1.7131	

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	0.4942					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0208	0.1366	0.1168	1.9000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	15.9578	15.9578	1.6800e-003	0.0000	15.9932
Total	0.5149	0.1366	0.1168	1.9000e-004		0.0108	0.0108		0.0108	0.0108	0.0000	15.9578	15.9578	1.6800e-003	0.0000	15.9932

3.7 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.0000e-004	9.5000e-004	9.5100e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.7113	1.7113	8.0000e-005	0.0000	1.7131
Total	8.0000e-004	9.5000e-004	9.5100e-003	2.0000e-005	2.0200e-003	2.0000e-005	2.0300e-003	5.4000e-004	1.0000e-005	5.5000e-004	0.0000	1.7113	1.7113	8.0000e-005	0.0000	1.7131

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	0.2785	0.7139	2.8578	7.3200e-003	0.5361	8.7800e-003	0.5449	0.1431	8.0900e-003	0.1512	0.0000	545.4501	545.4501	0.0209	0.0000	545.8888
Unmitigated	0.2785	0.7139	2.8578	7.3200e-003	0.5361	8.7800e-003	0.5449	0.1431	8.0900e-003	0.1512	0.0000	545.4501	545.4501	0.0209	0.0000	545.8888

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	516.78	544.32	473.58	1,421,719	1,421,719
Total	516.78	544.32	473.58	1,421,719	1,421,719

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
Single Family Housing	10.80	7.30	7.50	32.90	18.00	49.10	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.475011	0.063009	0.180574	0.158011	0.069740	0.010288	0.013503	0.017378	0.000770	0.000675	0.005608	0.000318	0.005113

5.0 Energy Detail

~~4.4 Fleet Mix~~

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	105.9752	105.9752	4.8700e-003	1.0100e-003	106.3900
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	109.5568	109.5568	5.0400e-003	1.0400e-003	109.9855
NaturalGas Mitigated	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386
NaturalGas Unmitigated	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386

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					
Single Family Housing	1.55971e+006	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386
Total		8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.55971e+006	8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386
Total		8.4100e-003	0.0719	0.0306	4.6000e-004		5.8100e-003	5.8100e-003		5.8100e-003	5.8100e-003	0.0000	83.2320	83.2320	1.6000e-003	1.5300e-003	83.7386

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	382842	109.5568	5.0400e-003	1.0400e-003	109.9855
Total		109.5568	5.0400e-003	1.0400e-003	109.9855

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	370327	105.9752	4.8700e-003	1.0100e-003	106.3900
Total		105.9752	4.8700e-003	1.0100e-003	106.3900

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686
Unmitigated	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686

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	0.0494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0125	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686
Total	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686

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	0.0494					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3796					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0125	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686
Total	0.4415	4.6900e-003	0.4038	2.0000e-005		2.2000e-003	2.2000e-003		2.2000e-003	2.2000e-003	0.0000	0.6550	0.6550	6.5000e-004	0.0000	0.6686

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

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	16.6584	0.0924	2.3200e-003	19.3175
Unmitigated	21.2780	0.1156	2.9000e-003	24.6036

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	3.51832 / 2.21807	21.2780	0.1156	2.9000e-003	24.6036
Total		21.2780	0.1156	2.9000e-003	24.6036

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.81465 / 1.77446	16.6584	0.0924	2.3200e-003	19.3175
Total		16.6584	0.0924	2.3200e-003	19.3175

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.8662	0.4058	0.0000	15.3875
Unmitigated	13.7323	0.8116	0.0000	30.7751

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	67.65	13.7323	0.8116	0.0000	30.7751
Total		13.7323	0.8116	0.0000	30.7751

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	33.825	6.8662	0.4058	0.0000	15.3875
Total		6.8662	0.4058	0.0000	15.3875

9.0 Operational Offroad

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