Vine Hill Vesting Tentative Map

Contra Costa County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	100.00	Dwelling Unit	26.76	180,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2015
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

Project Characteristics -

Land Use - Lot acreage adjusted to actual.

Construction Phase - Demolition and site preparation phases reduced to 10 days each (20 total) due to minimal buildings and infrastructure removal needed.

Grading -

Demolition -

Architectural Coating - VOC adjusted from 250 to 150 g/L for exterior and to 100 g/L for interior.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	6/27/2017	1/19/2016
tblConstructionPhase	PhaseStartDate	5/10/2017	12/2/2015
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	LotAcreage	32.47	26.76
tblProjectCharacteristics	OperationalYear	2014	2015

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	1.3040	4.3485	3.0173	4.1900e-003	0.3229	0.2365	0.5595	0.1405	0.2198	0.3603	0.0000	387.1901	387.1901	0.0899	0.0000	389.0788
2016	1.0363	3.9055	2.8904	4.3700e-003	0.0524	0.2605	0.3129	0.0141	0.2448	0.2589	0.0000	387.6092	387.6092	0.0810	0.0000	389.3098
2017	0.1811	1.2683	0.9827	1.5300e-003	0.0183	0.0827	0.1010	4.9400e-003	0.0777	0.0826	0.0000	133.9797	133.9797	0.0279	0.0000	134.5653
Total	**2.5214**	**9.5224**	**6.8904**	**0.0101**	**0.3937**	**0.5797**	**0.9734**	**0.1595**	**0.5423**	**0.7018**	**0.0000**	**908.7790**	**908.7790**	**0.1988**	**0.0000**	**912.9539**

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	1.3035	4.3437	3.0142	4.1800e-003	0.4798	0.2363	0.7161	0.1458	0.2196	0.3654	0.0000	386.8144	386.8144	0.0898	0.0000	388.7009
2016	1.0358	3.9011	2.8875	4.3700e-003	0.0524	0.2602	0.3126	0.0141	0.2445	0.2586	0.0000	387.2313	387.2313	0.0809	0.0000	388.9299
2017	0.1810	1.2669	0.9817	1.5300e-003	0.0183	0.0826	0.1009	4.9400e-003	0.0776	0.0825	0.0000	133.8487	133.8487	0.0279	0.0000	134.4336
Total	**2.5203**	**9.5116**	**6.8834**	**0.0101**	**0.5506**	**0.5791**	**1.1296**	**0.1649**	**0.5416**	**0.7065**	**0.0000**	**907.8943**	**907.8943**	**0.1986**	**0.0000**	**912.0643**

	ROG	**NOx**	**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	**0.05**	**0.11**	**0.10**	**0.10**	**-39.85**	**0.12**	**-16.05**	**-3.34**	**0.12**	**-0.67**	**0.00**	**0.10**	**0.10**	**0.12**	**0.00**	**0.10**

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	1.4418	0.0200	1.6599	9.9000e-004		0.1357	0.1357		0.1357	0.1357	13.8325	5.0897	18.9222	0.0310	7.3000e-004	19.8004
Energy	0.0275	0.2351	0.1000	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	474.5611	474.5611	0.0144	6.8800e-003	476.9968
Mobile	1.6849	1.4301	6.7797	0.0112	0.7915	0.0177	0.8092	0.2120	0.0162	0.2282	0.0000	912.6345	912.6345	0.0445	0.0000	913.5679
Waste						0.0000	0.0000		0.0000	0.0000	24.3833	0.0000	24.3833	1.4410	0.0000	54.6445
Water						0.0000	0.0000		0.0000	0.0000	2.0670	14.4383	16.5053	0.2130	5.1500e-003	22.5733
Total	**3.1541**	**1.6851**	**8.5396**	**0.0137**	**0.7915**	**0.1724**	**0.9639**	**0.2120**	**0.1709**	**0.3829**	**40.2828**	**1,406.7236**	**1,447.0064**	**1.7438**	**0.0128**	**1,487.5830**

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	0.8546	8.9100e-003	0.7565	4.0000e-005		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003	0.0000	8.2617	8.2617	1.4000e-003	1.3000e-004	8.3311
Energy	0.0239	0.2041	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	430.8514	430.8514	0.0133	6.1500e-003	433.0386
Mobile	1.6849	1.4301	6.7797	0.0112	0.7915	0.0177	0.8092	0.2120	0.0162	0.2282	0.0000	912.6345	912.6345	0.0445	0.0000	913.5679
Waste						0.0000	0.0000		0.0000	0.0000	24.3833	0.0000	24.3833	1.4410	0.0000	54.6445
Water						0.0000	0.0000		0.0000	0.0000	1.6536	12.1320	13.7856	0.1704	4.1200e-003	18.6396
Total	**2.5634**	**1.6431**	**7.6230**	**0.0125**	**0.7915**	**0.0387**	**0.8303**	**0.2120**	**0.0373**	**0.2493**	**26.0369**	**1,363.8795**	**1,389.9164**	**1.6705**	**0.0104**	**1,428.2217**

	ROG	NOx	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	**18.73**	**2.49**	**10.73**	**8.40**	**0.00**	**77.53**	**13.87**	**0.00**	**78.19**	**34.90**	**35.36**	**3.05**	**3.95**	**4.20**	**18.50**	**3.99**

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	4/15/2015	4/28/2015	5	10	
2	Site Preparation	Site Preparation	4/29/2015	5/12/2015	5	10	
3	Grading	Grading	5/13/2015	7/14/2015	5	45	
4	Paving	Paving	7/15/2015	9/1/2015	5	35	
5	Building Construction	Building Construction	9/2/2015	5/9/2017	5	440	
6	Architectural Coating	Architectural Coating	12/2/2015	1/19/2016	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 364,500; Residential Outdoor: 121,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0

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	2	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	2	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
Grading	Scrapers	2	8.00	361	0.48
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	12.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,125.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	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					1.3000e-003	0.0000	1.3000e-003	2.0000e-004	0.0000	2.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2418	0.1804	2.0000e-004		0.0123	0.0123		0.0114	0.0114	0.0000	18.7206	18.7206	5.0700e-003	0.0000	18.8272
Total	**0.0225**	**0.2418**	**0.1804**	**2.0000e-004**	**1.3000e-003**	**0.0123**	**0.0136**	**2.0000e-004**	**0.0114**	**0.0116**	**0.0000**	**18.7206**	**18.7206**	**5.0700e-003**	**0.0000**	**18.8272**

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	4.3000e-004	2.0900e-003	1.6300e-003	0.0000	1.0000e-004	3.0000e-005	1.3000e-004	3.0000e-005	3.0000e-005	6.0000e-005	0.0000	0.4162	0.4162	0.0000	0.0000	0.4163

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	1.4400e-003	4.6000e-004	4.5400e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6385	0.6385	4.0000e-005	0.0000	0.6393
Total	**1.8700e-003**	**2.5500e-003**	**6.1700e-003**	**1.0000e-005**	**7.8000e-004**	**4.0000e-005**	**8.2000e-004**	**2.1000e-004**	**4.0000e-005**	**2.5000e-004**	**0.0000**	**1.0547**	**1.0547**	**4.0000e-005**	**0.0000**	**1.0556**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.8000e-004	0.0000	5.8000e-004	9.0000e-005	0.0000	9.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0225	0.2415	0.1802	2.0000e-004		0.0122	0.0122		0.0114	0.0114	0.0000	18.6984	18.6984	5.0700e-003	0.0000	18.8048
Total	**0.0225**	**0.2415**	**0.1802**	**2.0000e-004**	**5.8000e-004**	**0.0122**	**0.0128**	**9.0000e-005**	**0.0114**	**0.0115**	**0.0000**	**18.6984**	**18.6984**	**5.0700e-003**	**0.0000**	**18.8048**

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	4.3000e-004	2.0900e-003	1.6300e-003	0.0000	7.9000e-004	3.0000e-005	8.2000e-004	2.0000e-004	3.0000e-005	2.2000e-004	0.0000	0.4162	0.4162	0.0000	0.0000	0.4163
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	1.4400e-003	4.6000e-004	4.5400e-003	1.0000e-005	6.8000e-004	1.0000e-005	6.9000e-004	1.8000e-004	1.0000e-005	1.9000e-004	0.0000	0.6385	0.6385	4.0000e-005	0.0000	0.6393
Total	**1.8700e-003**	**2.5500e-003**	**6.1700e-003**	**1.0000e-005**	**1.4700e-003**	**4.0000e-005**	**1.5100e-003**	**3.8000e-004**	**4.0000e-005**	**4.1000e-004**	**0.0000**	**1.0547**	**1.0547**	**4.0000e-005**	**0.0000**	**1.0556**

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**

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	1.7300e-003	5.6000e-004	5.4400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7662	0.7662	4.0000e-005	0.0000	0.7671
Total	**1.7300e-003**	**5.6000e-004**	**5.4400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7662**	**0.7662**	**4.0000e-005**	**0.0000**	**0.7671**

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	0.2841	0.2129	2.0000e-004		0.0154	0.0154		0.0142	0.0142	0.0000	18.6284	18.6284	5.5600e-003	0.0000	18.7452
Total	**0.0263**	**0.2841**	**0.2129**	**2.0000e-004**	**0.0407**	**0.0154**	**0.0561**	**0.0223**	**0.0142**	**0.0365**	**0.0000**	**18.6284**	**18.6284**	**5.5600e-003**	**0.0000**	**18.7452**

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	1.7300e-003	5.6000e-004	5.4400e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7662	0.7662	4.0000e-005	0.0000	0.7671
Total	**1.7300e-003**	**5.6000e-004**	**5.4400e-003**	**1.0000e-005**	**8.2000e-004**	**1.0000e-005**	**8.3000e-004**	**2.2000e-004**	**1.0000e-005**	**2.2000e-004**	**0.0000**	**0.7662**	**0.7662**	**4.0000e-005**	**0.0000**	**0.7671**

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					0.1957	0.0000	0.1957	0.0810	0.0000	0.0810	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1524	1.7786	1.1439	1.3900e-003		0.0856	0.0856		0.0787	0.0787	0.0000	132.3950	132.3950	0.0395	0.0000	133.2250

Total	**0.1524**	**1.7786**	**1.1439**	**1.3900e-003**	**0.1957**	**0.0856**	**0.2812**	**0.0810**	**0.0787**	**0.1597**	**0.0000**	**132.3950**	**132.3950**	**0.0395**	**0.0000**	**133.2250**

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	0.0402	0.1958	0.1529	4.2000e-004	9.5000e-003	2.9100e-003	0.0124	2.6100e-003	2.6700e-003	5.2800e-003	0.0000	39.0218	39.0218	3.3000e-004	0.0000	39.0287
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	8.6400e-003	2.7800e-003	0.0272	5.0000e-005	4.1000e-003	4.0000e-005	4.1300e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.8310	3.8310	2.2000e-004	0.0000	3.8357
Total	**0.0489**	**0.1986**	**0.1801**	**4.7000e-004**	**0.0136**	**2.9500e-003**	**0.0165**	**3.7000e-003**	**2.7000e-003**	**6.4000e-003**	**0.0000**	**42.8528**	**42.8528**	**5.5000e-004**	**0.0000**	**42.8644**

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					0.0881	0.0000	0.0881	0.0365	0.0000	0.0365	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1523	1.7764	1.1425	1.3900e-003		0.0855	0.0855		0.0786	0.0786	0.0000	132.2375	132.2375	0.0395	0.0000	133.0665
Total	**0.1523**	**1.7764**	**1.1425**	**1.3900e-003**	**0.0881**	**0.0855**	**0.1735**	**0.0365**	**0.0786**	**0.1151**	**0.0000**	**132.2375**	**132.2375**	**0.0395**	**0.0000**	**133.0665**

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	0.0402	0.1958	0.1529	4.2000e-004	0.3237	2.9100e-003	0.3266	0.0797	2.6700e-003	0.0824	0.0000	39.0218	39.0218	3.3000e-004	0.0000	39.0287
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	8.6400e-003	2.7800e-003	0.0272	5.0000e-005	4.1000e-003	4.0000e-005	4.1300e-003	1.0900e-003	3.0000e-005	1.1200e-003	0.0000	3.8310	3.8310	2.2000e-004	0.0000	3.8357
Total	**0.0489**	**0.1986**	**0.1801**	**4.7000e-004**	**0.3278**	**2.9500e-003**	**0.3308**	**0.0808**	**2.7000e-003**	**0.0835**	**0.0000**	**42.8528**	**42.8528**	**5.5000e-004**	**0.0000**	**42.8644**

3.5 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	0.0406	0.4406	0.2621	3.9000e-004		0.0248	0.0248		0.0228	0.0228	0.0000	37.1476	37.1476	0.0111	0.0000	37.3805
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0406**	**0.4406**	**0.2621**	**3.9000e-004**		**0.0248**	**0.0248**		**0.0228**	**0.0228**	**0.0000**	**37.1476**	**37.1476**	**0.0111**	**0.0000**	**37.3805**

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	5.0400e-003	1.6200e-003	0.0159	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.4000e-004	2.0000e-005	6.5000e-004	0.0000	2.2347	2.2347	1.3000e-004	0.0000	2.2375
Total	**5.0400e-003**	**1.6200e-003**	**0.0159**	**3.0000e-005**	**2.3900e-003**	**2.0000e-005**	**2.4100e-003**	**6.4000e-004**	**2.0000e-005**	**6.5000e-004**	**0.0000**	**2.2347**	**2.2347**	**1.3000e-004**	**0.0000**	**2.2375**

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	0.0405	0.4401	0.2618	3.9000e-004		0.0247	0.0247		0.0228	0.0228	0.0000	37.1034	37.1034	0.0111	0.0000	37.3360
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0405**	**0.4401**	**0.2618**	**3.9000e-004**		**0.0247**	**0.0247**		**0.0228**	**0.0228**	**0.0000**	**37.1034**	**37.1034**	**0.0111**	**0.0000**	**37.3360**

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	5.0400e-003	1.6200e-003	0.0159	3.0000e-005	2.3900e-003	2.0000e-005	2.4100e-003	6.4000e-004	2.0000e-005	6.5000e-004	0.0000	2.2347	2.2347	1.3000e-004	0.0000	2.2375

Total	**5.0400e-003**	**1.6200e-003**	**0.0159**	**3.0000e-005**	**2.3900e-003**	**2.0000e-005**	**2.4100e-003**	**6.4000e-004**	**2.0000e-005**	**6.5000e-004**	**0.0000**	**2.2347**	**2.2347**	**1.3000e-004**	**0.0000**	**2.2375**

3.6 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	0.1592	1.3063	0.8154	1.1700e-003		0.0921	0.0921		0.0866	0.0866	0.0000	106.1375	106.1375	0.0266	0.0000	106.6968
Total	**0.1592**	**1.3063**	**0.8154**	**1.1700e-003**		**0.0921**	**0.0921**		**0.0866**	**0.0866**	**0.0000**	**106.1375**	**106.1375**	**0.0266**	**0.0000**	**106.6968**

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	0.0130	0.0551	0.0745	1.1000e-004	3.0800e-003	8.9000e-004	3.9700e-003	8.8000e-004	8.1000e-004	1.7000e-003	0.0000	10.4345	10.4345	9.0000e-005	0.0000	10.4365
Worker	0.0301	9.6700e-003	0.0947	1.7000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	13.3318	13.3318	7.8000e-004	0.0000	13.3482
Total	**0.0431**	**0.0648**	**0.1692**	**2.8000e-004**	**0.0173**	**1.0100e-003**	**0.0184**	**4.6700e-003**	**9.2000e-004**	**5.6000e-003**	**0.0000**	**23.7663**	**23.7663**	**8.7000e-004**	**0.0000**	**23.7847**

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	0.1590	1.3048	0.8144	1.1700e-003		0.0920	0.0920		0.0865	0.0865	0.0000	106.0113	106.0113	0.0266	0.0000	106.5698
Total	**0.1590**	**1.3048**	**0.8144**	**1.1700e-003**		**0.0920**	**0.0920**		**0.0865**	**0.0865**	**0.0000**	**106.0113**	**106.0113**	**0.0266**	**0.0000**	**106.5698**

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	0.0130	0.0551	0.0745	1.1000e-004	3.0800e-003	8.9000e-004	3.9700e-003	8.8000e-004	8.1000e-004	1.7000e-003	0.0000	10.4345	10.4345	9.0000e-005	0.0000	10.4365
Worker	0.0301	9.6700e-003	0.0947	1.7000e-004	0.0143	1.2000e-004	0.0144	3.7900e-003	1.1000e-004	3.9000e-003	0.0000	13.3318	13.3318	7.8000e-004	0.0000	13.3482
Total	**0.0431**	**0.0648**	**0.1692**	**2.8000e-004**	**0.0173**	**1.0100e-003**	**0.0184**	**4.6700e-003**	**9.2000e-004**	**5.6000e-003**	**0.0000**	**23.7663**	**23.7663**	**8.7000e-004**	**0.0000**	**23.7847**

3.6 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	0.4445	3.7201	2.4151	3.5000e-003		0.2567	0.2567		0.2412	0.2412	0.0000	316.0104	316.0104	0.0784	0.0000	317.6563
Total	**0.4445**	**3.7201**	**2.4151**	**3.5000e-003**		**0.2567**	**0.2567**		**0.2412**	**0.2412**	**0.0000**	**316.0104**	**316.0104**	**0.0784**	**0.0000**	**317.6563**

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	0.0345	0.1438	0.2066	3.4000e-004	9.2500e-003	2.1200e-003	0.0114	2.6500e-003	1.9500e-003	4.6000e-003	0.0000	30.9377	30.9377	2.5000e-004	0.0000	30.9429
Worker	0.0835	0.0260	0.2540	5.1000e-004	0.0428	3.5000e-004	0.0431	0.0114	3.2000e-004	0.0117	0.0000	38.6273	38.6273	2.1400e-003	0.0000	38.6722
Total	**0.1180**	**0.1698**	**0.4606**	**8.5000e-004**	**0.0520**	**2.4700e-003**	**0.0545**	**0.0140**	**2.2700e-003**	**0.0163**	**0.0000**	**69.5650**	**69.5650**	**2.3900e-003**	**0.0000**	**69.6152**

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	0.4440	3.7157	2.4122	3.5000e-003		0.2564	0.2564		0.2409	0.2409	0.0000	315.6345	315.6345	0.0783	0.0000	317.2785
Total	**0.4440**	**3.7157**	**2.4122**	**3.5000e-003**		**0.2564**	**0.2564**		**0.2409**	**0.2409**	**0.0000**	**315.6345**	**315.6345**	**0.0783**	**0.0000**	**317.2785**

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0345	0.1438	0.2066	3.4000e-004	9.2500e-003	2.1200e-003	0.0114	2.6500e-003	1.9500e-003	4.6000e-003	0.0000	30.9377	30.9377	2.5000e-004	0.0000	30.9429
Worker	0.0835	0.0260	0.2540	5.1000e-004	0.0428	3.5000e-004	0.0431	0.0114	3.2000e-004	0.0117	0.0000	38.6273	38.6273	2.1400e-003	0.0000	38.6722
Total	**0.1180**	**0.1698**	**0.4606**	**8.5000e-004**	**0.0520**	**2.4700e-003**	**0.0545**	**0.0140**	**2.2700e-003**	**0.0163**	**0.0000**	**69.5650**	**69.5650**	**2.3900e-003**	**0.0000**	**69.6152**

3.6 Building Construction - 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	0.1427	1.2147	0.8339	1.2300e-003		0.0819	0.0819		0.0770	0.0770	0.0000	110.1604	110.1604	0.0271	0.0000	110.7298
Total	**0.1427**	**1.2147**	**0.8339**	**1.2300e-003**		**0.0819**	**0.0819**		**0.0770**	**0.0770**	**0.0000**	**110.1604**	**110.1604**	**0.0271**	**0.0000**	**110.7298**

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	0.0113	0.0454	0.0693	1.2000e-004	3.2600e-003	6.5000e-004	3.9100e-003	9.3000e-004	6.0000e-004	1.5300e-003	0.0000	10.7230	10.7230	8.0000e-005	0.0000	10.7248
Worker	0.0271	8.2000e-003	0.0795	1.8000e-004	0.0151	1.2000e-004	0.0152	4.0100e-003	1.1000e-004	4.1200e-003	0.0000	13.0963	13.0963	6.9000e-004	0.0000	13.1108
Total	**0.0384**	**0.0536**	**0.1487**	**3.0000e-004**	**0.0183**	**7.7000e-004**	**0.0191**	**4.9400e-003**	**7.1000e-004**	**5.6500e-003**	**0.0000**	**23.8193**	**23.8193**	**7.7000e-004**	**0.0000**	**23.8355**

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	0.1425	1.2132	0.8330	1.2300e-003		0.0818	0.0818		0.0769	0.0769	0.0000	110.0293	110.0293	0.0271	0.0000	110.5980
Total	**0.1425**	**1.2132**	**0.8330**	**1.2300e-003**		**0.0818**	**0.0818**		**0.0769**	**0.0769**	**0.0000**	**110.0293**	**110.0293**	**0.0271**	**0.0000**	**110.5980**

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	0.0113	0.0454	0.0693	1.2000e-004	3.2600e-003	6.5000e-004	3.9100e-003	9.3000e-004	6.0000e-004	1.5300e-003	0.0000	10.7230	10.7230	8.0000e-005	0.0000	10.7248

Worker	0.0271	8.2000e-003	0.0795	1.8000e-004	0.0151	1.2000e-004	0.0152	4.0100e-003	1.1000e-004	4.1200e-003	0.0000	13.0963	13.0963	6.9000e-004	0.0000	13.1108
Total	**0.0384**	**0.0536**	**0.1487**	**3.0000e-004**	**0.0183**	**7.7000e-004**	**0.0191**	**4.9400e-003**	**7.1000e-004**	**5.6500e-003**	**0.0000**	**23.8193**	**23.8193**	**7.7000e-004**	**0.0000**	**23.8355**

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	0.7965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4700e-003	0.0283	0.0209	3.0000e-005		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	2.8086	2.8086	3.7000e-004	0.0000	2.8163
Total	**0.8009**	**0.0283**	**0.0209**	**3.0000e-005**		**2.4300e-003**	**2.4300e-003**		**2.4300e-003**	**2.4300e-003**	**0.0000**	**2.8086**	**2.8086**	**3.7000e-004**	**0.0000**	**2.8163**

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	1.4800e-003	4.8000e-004	4.6600e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6555	0.6555	4.0000e-005	0.0000	0.6563
Total	**1.4800e-003**	**4.8000e-004**	**4.6600e-003**	**1.0000e-005**	**7.0000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6555**	**0.6555**	**4.0000e-005**	**0.0000**	**0.6563**

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	0.7965					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4700e-003	0.0282	0.0209	3.0000e-005		2.4300e-003	2.4300e-003		2.4300e-003	2.4300e-003	0.0000	2.8052	2.8052	3.7000e-004	0.0000	2.8129
Total	**0.8009**	**0.0282**	**0.0209**	**3.0000e-005**		**2.4300e-003**	**2.4300e-003**		**2.4300e-003**	**2.4300e-003**	**0.0000**	**2.8052**	**2.8052**	**3.7000e-004**	**0.0000**	**2.8129**

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	1.4800e-003	4.8000e-004	4.6600e-003	1.0000e-005	7.0000e-004	1.0000e-005	7.1000e-004	1.9000e-004	1.0000e-005	1.9000e-004	0.0000	0.6555	0.6555	4.0000e-005	0.0000	0.6563
Total	**1.4800e-003**	**4.8000e-004**	**4.6600e-003**	**1.0000e-005**	**7.0000e-004**	**1.0000e-005**	**7.1000e-004**	**1.9000e-004**	**1.0000e-005**	**1.9000e-004**	**0.0000**	**0.6555**	**0.6555**	**4.0000e-005**	**0.0000**	**0.6563**

3.7 Architectural Coating - 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					

Archit. Coating	0.4706					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0154	0.0123	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	1.6596	1.6596	2.0000e-004	0.0000	1.6637
Total	**0.4730**	**0.0154**	**0.0123**	**2.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**1.6596**	**1.6596**	**2.0000e-004**	**0.0000**	**1.6637**

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	8.1000e-004	2.5000e-004	2.4600e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Total	**8.1000e-004**	**2.5000e-004**	**2.4600e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3741**	**0.3741**	**2.0000e-005**	**0.0000**	**0.3745**

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	0.4706					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.3900e-003	0.0154	0.0122	2.0000e-005		1.2800e-003	1.2800e-003		1.2800e-003	1.2800e-003	0.0000	1.6576	1.6576	2.0000e-004	0.0000	1.6617
Total	**0.4730**	**0.0154**	**0.0122**	**2.0000e-005**		**1.2800e-003**	**1.2800e-003**		**1.2800e-003**	**1.2800e-003**	**0.0000**	**1.6576**	**1.6576**	**2.0000e-004**	**0.0000**	**1.6617**

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	8.1000e-004	2.5000e-004	2.4600e-003	0.0000	4.1000e-004	0.0000	4.2000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3741	0.3741	2.0000e-005	0.0000	0.3745
Total	**8.1000e-004**	**2.5000e-004**	**2.4600e-003**	**0.0000**	**4.1000e-004**	**0.0000**	**4.2000e-004**	**1.1000e-004**	**0.0000**	**1.1000e-004**	**0.0000**	**0.3741**	**0.3741**	**2.0000e-005**	**0.0000**	**0.3745**

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	1.6849	1.4301	6.7797	0.0112	0.7915	0.0177	0.8092	0.2120	0.0162	0.2282	0.0000	912.6345	912.6345	0.0445	0.0000	913.5679
Unmitigated	1.6849	1.4301	6.7797	0.0112	0.7915	0.0177	0.8092	0.2120	0.0162	0.2282	0.0000	912.6345	912.6345	0.0445	0.0000	913.5679

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT

Single Family Housing	957.00	1,008.00	877.00	2,127,126	2,127,126
Total	957.00	1,008.00	877.00	2,127,126	2,127,126

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.527595	0.065111	0.176365	0.146583	0.036541	0.004920	0.009546	0.020124	0.001217	0.001491	0.006333	0.002119	0.002054

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	194.4714	194.4714	8.7900e-003	1.8200e-003	195.2200
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	202.2990	202.2990	9.1500e-003	1.8900e-003	203.0778
NaturalGas Mitigated	0.0239	0.2041	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.3800	236.3800	4.5300e-003	4.3300e-003	237.8186
NaturalGas Unmitigated	0.0275	0.2351	0.1000	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.2622	272.2622	5.2200e-003	4.9900e-003	273.9191

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	5.102e+006	0.0275	0.2351	0.1000	1.5000e-003		0.0190	0.0190		0.0190	0.0190	0.0000	272.2622	272.2622	5.2200e-003	4.9900e-003	273.9191
Total		**0.0275**	**0.2351**	**0.1000**	**1.5000e-003**		**0.0190**	**0.0190**		**0.0190**	**0.0190**	**0.0000**	**272.2622**	**272.2622**	**5.2200e-003**	**4.9900e-003**	**273.9191**

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	4.42959e+006	0.0239	0.2041	0.0869	1.3000e-003		0.0165	0.0165		0.0165	0.0165	0.0000	236.3800	236.3800	4.5300e-003	4.3300e-003	237.8186
Total		**0.0239**	**0.2041**	**0.0869**	**1.3000e-003**		**0.0165**	**0.0165**		**0.0165**	**0.0165**	**0.0000**	**236.3800**	**236.3800**	**4.5300e-003**	**4.3300e-003**	**237.8186**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e

Land Use	kWh/yr	MT/yr			
Single Family Housing	695397	202.2990	9.1500e-003	1.8900e-003	203.0778
Total		**202.2990**	**9.1500e-003**	**1.8900e-003**	**203.0778**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	668490	194.4714	8.7900e-003	1.8200e-003	195.2200
Total		**194.4714**	**8.7900e-003**	**1.8200e-003**	**195.2200**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	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	0.8546	8.9100e-003	0.7565	4.0000e-005		4.5400e-003	4.5400e-003		4.5400e-003	4.5400e-003	0.0000	8.2617	8.2617	1.4000e-003	1.3000e-004	8.3311
Unmitigated	1.4418	0.0200	1.6599	9.9000e-004		0.1357	0.1357		0.1357	0.1357	13.8325	5.0897	18.9222	0.0310	7.3000e-004	19.8004

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	0.1267					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7030					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.5879	0.0111	0.9035	9.5000e-004		0.1316	0.1316		0.1316	0.1316	13.8325	3.8769	17.7093	0.0298	7.3000e-004	18.5610
Landscaping	0.0242	8.9100e-003	0.7564	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.2129	1.2129	1.2600e-003	0.0000	1.2394
Total	**1.4418**	**0.0200**	**1.6599**	**9.9000e-004**		**0.1357**	**0.1357**		**0.1357**	**0.1357**	**13.8325**	**5.0897**	**18.9222**	**0.0310**	**7.3000e-004**	**19.8004**

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	0.1267					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.7030					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.1000e-004	0.0000	4.0000e-005	0.0000		4.9000e-004	4.9000e-004		4.9000e-004	4.9000e-004	0.0000	7.0488	7.0488	1.4000e-004	1.3000e-004	7.0917

Landscaping	0.0242	8.9100e-003	0.7564	4.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.0000	1.2129	1.2129	1.2600e-003	0.0000	1.2394
Total	**0.8546**	**8.9100e-003**	**0.7565**	**4.0000e-005**		**4.5400e-003**	**4.5400e-003**		**4.5400e-003**	**4.5400e-003**	**0.0000**	**8.2617**	**8.2617**	**1.4000e-003**	**1.3000e-004**	**8.3311**

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	13.7856	0.1704	4.1200e-003	18.6396
Unmitigated	16.5053	0.2130	5.1500e-003	22.5733

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	6.5154 / 4.10754	16.5053	0.2130	5.1500e-003	22.5733

Total		**16.5053**	**0.2130**	**5.1500e-003**	**22.5733**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	5.21232 / 3.85698	13.7856	0.1704	4.1200e-003	18.6396
Total		**13.7856**	**0.1704**	**4.1200e-003**	**18.6396**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	24.3833	1.4410	0.0000	54.6445
Unmitigated	24.3833	1.4410	0.0000	54.6445

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	120.12	24.3833	1.4410	0.0000	54.6445
Total		**24.3833**	**1.4410**	**0.0000**	**54.6445**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	120.12	24.3833	1.4410	0.0000	54.6445
Total		**24.3833**	**1.4410**	**0.0000**	**54.6445**

9.0 Operational Offroad

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

10.0 Vegetation

Vine Hill Vesting Tentative Map

Contra Costa County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	100.00	Dwelling Unit	26.76	180,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2015
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

Project Characteristics -

Land Use - Lot acreage adjusted to actual.

Construction Phase - Demolition and site preparation phases reduced to 10 days each (20 total) due to minimal buildings and infrastructure removal needed.

Grading -

Demolition -

Architectural Coating - VOC adjusted from 250 to 150 g/L for exterior and to 100 g/L for interior.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	6/27/2017	1/19/2016
tblConstructionPhase	PhaseStartDate	5/10/2017	12/2/2015
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	LotAcreage	32.47	26.76
tblProjectCharacteristics	OperationalYear	2014	2015

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	77.5596	87.5497	57.7992	0.0829	18.2360	3.9328	21.3257	9.9757	3.6181	12.8182	0.0000	8,604.2441	8,604.2441	1.9634	0.0000	8,645.4762
2016	77.1763	32.1567	24.1624	0.0375	0.4785	2.1834	2.6619	0.1284	2.0629	2.1912	0.0000	3,637.3599	3,637.3599	0.7189	0.0000	3,652.4562
2017	3.9105	27.5206	21.1855	0.0337	0.4125	1.7978	2.2102	0.1109	1.6882	1.7991	0.0000	3,239.4447	3,239.4447	0.6682	0.0000	3,253.4762
Total	**158.6464**	**147.2271**	**103.1471**	**0.1540**	**19.1269**	**7.9139**	**26.1978**	**10.2149**	**7.3692**	**16.8085**	**0.0000**	**15,481.0486**	**15,481.0486**	**3.3505**	**0.0000**	**15,551.4085**

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	lb/day										lb/day					
2015	77.5558	87.4772	57.7526	0.0829	19.0805	3.9293	23.0098	5.3589	3.6149	8.9738	0.0000	8,598.2933	8,598.2933	1.9617	0.0000	8,639.4881
2016	77.1729	32.1284	24.1437	0.0374	0.4785	2.1814	2.6599	0.1284	2.0610	2.1894	0.0000	3,634.6528	3,634.6528	0.7182	0.0000	3,649.7356
2017	3.9076	27.4964	21.1689	0.0336	0.4125	1.7961	2.2086	0.1109	1.6867	1.7975	0.0000	3,237.0228	3,237.0228	0.6676	0.0000	3,251.0418
Total	**158.6364**	**147.1020**	**103.0651**	**0.1539**	**19.9715**	**7.9068**	**27.8783**	**5.5982**	**7.3626**	**12.9607**	**0.0000**	**15,469.9688**	**15,469.9688**	**3.3475**	**0.0000**	**15,540.2655**

	ROG	NOx	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	**0.01**	**0.08**	**0.08**	**0.07**	**-4.42**	**0.09**	**-6.41**	**45.20**	**0.09**	**22.89**	**0.00**	**0.07**	**0.07**	**0.09**	**0.00**	**0.07**

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	lb/day										lb/day					
Area	183.9904	2.4657	225.3843	0.0727		30.4307	30.4307		30.4298	30.4298	3,155.7722	1,373.6788	4,529.4509	2.5360	0.2563	4,662.1536
Energy	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883
Mobile	9.7247	7.7850	38.9804	0.0699	4.7631	0.1027	4.8658	1.2720	0.0942	1.3662		6,264.1081	6,264.1081	0.2851		6,270.0942
Total	**193.8658**	**11.5389**	**264.9128**	**0.1508**	**4.7631**	**30.6375**	**35.4006**	**1.2720**	**30.6281**	**31.9001**	**3,155.7722**	**9,282.2671**	**12,438.0393**	**2.8526**	**0.2864**	**12,586.7361**

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	lb/day										lb/day					
Area	5.0417	0.0990	8.4172	4.4000e-004		0.2015	0.2015		0.1998	0.1998	0.0000	2,485.4435	2,485.4435	0.0628	0.0453	2,500.8035
Energy	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
Mobile	9.7247	7.7850	38.9804	0.0699	4.7631	0.1027	4.8658	1.2720	0.0942	1.3662		6,264.1081	6,264.1081	0.2851		6,270.0942
Total	**14.8972**	**9.0024**	**47.8735**	**0.0774**	**4.7631**	**0.3946**	**5.1577**	**1.2720**	**0.3845**	**1.6564**	**0.0000**	**10,177.3014**	**10,177.3014**	**0.3752**	**0.0715**	**10,207.3365**

	ROG	NOx	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	**92.32**	**21.98**	**81.93**	**48.66**	**0.00**	**98.71**	**85.43**	**0.00**	**98.74**	**94.81**	**100.00**	**-9.64**	**18.18**	**86.85**	**75.05**	**18.90**

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	4/15/2015	4/28/2015	5	10	
2	Site Preparation	Site Preparation	4/29/2015	5/12/2015	5	10	
3	Grading	Grading	5/13/2015	7/14/2015	5	45	
4	Paving	Paving	7/15/2015	9/1/2015	5	35	
5	Building Construction	Building Construction	9/2/2015	5/9/2017	5	440	
6	Architectural Coating	Architectural Coating	12/2/2015	1/19/2016	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 364,500; Residential Outdoor: 121,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0

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	2	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	2	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
Grading	Scrapers	2	8.00	361	0.48
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	12.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,125.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	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	lb/day										lb/day					
Fugitive Dust					0.2593	0.0000	0.2593	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	**4.5083**	**48.3629**	**36.0738**	**0.0399**	**0.2593**	**2.4508**	**2.7101**	**0.0393**	**2.2858**	**2.3250**		**4,127.1934**	**4,127.1934**	**1.1188**		**4,150.6886**

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	lb/day										lb/day					
Hauling	0.0831	0.4029	0.2708	9.0000e-004	0.0209	6.1900e-003	0.0271	5.7200e-003	5.6900e-003	0.0114		91.8534	91.8534	7.7000e-004		91.8695
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
Worker	0.2817	0.0825	0.9886	1.7700e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		153.2913	153.2913	8.2500e-003		153.4646
Total	**0.3648**	**0.4854**	**1.2594**	**2.6700e-003**	**0.1624**	**7.3700e-003**	**0.1697**	**0.0432**	**6.7700e-003**	**0.0500**		**245.1447**	**245.1447**	**9.0200e-003**		**245.3341**

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	lb/day										lb/day					
Fugitive Dust					0.1167	0.0000	0.1167	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	4.5041	48.3186	36.0407	0.0399		2.4486	2.4486		2.2837	2.2837	0.0000	4,123.4069	4,123.4069	1.1178		4,146.8806
Total	**4.5041**	**48.3186**	**36.0407**	**0.0399**	**0.1167**	**2.4486**	**2.5652**	**0.0177**	**2.2837**	**2.3014**	**0.0000**	**4,123.4069**	**4,123.4069**	**1.1178**		**4,146.8806**

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	lb/day										lb/day					
Hauling	0.0831	0.4029	0.2708	9.0000e-004	0.1637	6.1900e-003	0.1699	0.0408	5.6900e-003	0.0465		91.8534	91.8534	7.7000e-004		91.8695
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
Worker	0.2817	0.0825	0.9886	1.7700e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		153.2913	153.2913	8.2500e-003		153.4646
Total	**0.3648**	**0.4854**	**1.2594**	**2.6700e-003**	**0.3051**	**7.3700e-003**	**0.3125**	**0.0783**	**6.7700e-003**	**0.0851**		**245.1447**	**245.1447**	**9.0200e-003**		**245.3341**

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	lb/day										lb/day					

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	**5.2609**	**56.8897**	**42.6318**	**0.0391**	**18.0663**	**3.0883**	**21.1545**	**9.9307**	**2.8412**	**12.7719**		**4,111.7444**	**4,111.7444**	**1.2275**		**4,137.5225**

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	lb/day										lb/day					
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
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
Worker	0.3380	0.0990	1.1863	2.1200e-003	0.1698	1.4200e-003	0.1712	0.0450	1.2900e-003	0.0463		183.9496	183.9496	9.9000e-003		184.1575
Total	**0.3380**	**0.0990**	**1.1863**	**2.1200e-003**	**0.1698**	**1.4200e-003**	**0.1712**	**0.0450**	**1.2900e-003**	**0.0463**		**183.9496**	**183.9496**	**9.9000e-003**		**184.1575**

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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.2561	56.8375	42.5927	0.0391		3.0855	3.0855		2.8386	2.8386	0.0000	4,107.9721	4,107.9721	1.2264		4,133.7265
Total	**5.2561**	**56.8375**	**42.5927**	**0.0391**	**8.1298**	**3.0855**	**11.2153**	**4.4688**	**2.8386**	**7.3074**	**0.0000**	**4,107.9721**	**4,107.9721**	**1.2264**		**4,133.7265**

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	lb/day										lb/day					
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
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
Worker	0.3380	0.0990	1.1863	2.1200e-003	0.1698	1.4200e-003	0.1712	0.0450	1.2900e-003	0.0463		183.9496	183.9496	9.9000e-003		184.1575
Total	**0.3380**	**0.0990**	**1.1863**	**2.1200e-003**	**0.1698**	**1.4200e-003**	**0.1712**	**0.0450**	**1.2900e-003**	**0.0463**		**183.9496**	**183.9496**	**9.9000e-003**		**184.1575**

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	lb/day										lb/day					
Fugitive Dust					8.6960	0.0000	8.6960	3.5999	0.0000	3.5999			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	**6.7751**	**79.0467**	**50.8400**	**0.0618**	**8.6960**	**3.8022**	**12.4981**	**3.5999**	**3.4980**	**7.0979**		**6,486.2433**	**6,486.2433**	**1.9364**		**6,526.9080**

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	lb/day											lb/day				
Hauling	1.7310	8.3930	5.6412	0.0188	0.4355	0.1290	0.5645	0.1192	0.1186	0.2379		1,913.6124	1,913.6124	0.0160		1,913.9487
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
Worker	0.3756	0.1100	1.3181	2.3500e-003	0.1886	1.5700e-003	0.1902	0.0500	1.4400e-003	0.0515		204.3884	204.3884	0.0110		204.6195
Total	**2.1066**	**8.5031**	**6.9593**	**0.0212**	**0.6241**	**0.1306**	**0.7547**	**0.1693**	**0.1201**	**0.2893**		**2,118.0008**	**2,118.0008**	**0.0270**		**2,118.5682**

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	lb/day										lb/day					
Fugitive Dust					3.9132	0.0000	3.9132	1.6200	0.0000	1.6200			0.0000			0.0000
Off-Road	6.7689	78.9742	50.7933	0.0617		3.7987	3.7987		3.4948	3.4948	0.0000	6,480.2925	6,480.2925	1.9346		6,520.9199
Total	**6.7689**	**78.9742**	**50.7933**	**0.0617**	**3.9132**	**3.7987**	**7.7119**	**1.6200**	**3.4948**	**5.1148**	**0.0000**	**6,480.2925**	**6,480.2925**	**1.9346**		**6,520.9199**

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	lb/day										lb/day					
Hauling	1.7310	8.3930	5.6412	0.0188	14.9787	0.1290	15.1078	3.6890	0.1186	3.8076		1,913.6124	1,913.6124	0.0160		1,913.9487
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

Worker	0.3756	0.1100	1.3181	2.3500e-003	0.1886	1.5700e-003	0.1902	0.0500	1.4400e-003	0.0515		204.3884	204.3884	0.0110		204.6195
Total	**2.1066**	**8.5031**	**6.9593**	**0.0212**	**15.1674**	**0.1306**	**15.2979**	**3.7390**	**0.1201**	**3.8591**		**2,118.0008**	**2,118.0008**	**0.0270**		**2,118.5682**

3.5 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	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3172**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**		**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

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	lb/day										lb/day					
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
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
Worker	0.2817	0.0825	0.9886	1.7700e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		153.2913	153.2913	8.2500e-003		153.4646
Total	**0.2817**	**0.0825**	**0.9886**	**1.7700e-003**	**0.1415**	**1.1800e-003**	**0.1426**	**0.0375**	**1.0800e-003**	**0.0386**		**153.2913**	**153.2913**	**8.2500e-003**		**153.4646**

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	lb/day										lb/day					
Off-Road	2.3151	25.1527	14.9643	0.0223		1.4135	1.4135		1.3004	1.3004	0.0000	2,337.7516	2,337.7516	0.6979		2,352.4079
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3151**	**25.1527**	**14.9643**	**0.0223**		**1.4135**	**1.4135**		**1.3004**	**1.3004**	**0.0000**	**2,337.7516**	**2,337.7516**	**0.6979**		**2,352.4079**

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	lb/day										lb/day					
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
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
Worker	0.2817	0.0825	0.9886	1.7700e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		153.2913	153.2913	8.2500e-003		153.4646
Total	**0.2817**	**0.0825**	**0.9886**	**1.7700e-003**	**0.1415**	**1.1800e-003**	**0.1426**	**0.0375**	**1.0800e-003**	**0.0386**		**153.2913**	**153.2913**	**8.2500e-003**		**153.4646**

3.6 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	lb/day										lb/day					

Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**		**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

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	lb/day										lb/day					
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
Vendor	0.2811	1.2250	1.3558	2.6200e-003	0.0730	0.0202	0.0932	0.0208	0.0186	0.0394		265.2653	265.2653	2.3400e-003		265.3145
Worker	0.6760	0.1981	2.3726	4.2400e-003	0.3395	2.8300e-003	0.3423	0.0900	2.5900e-003	0.0926		367.8991	367.8991	0.0198		368.3150
Total	**0.9572**	**1.4231**	**3.7284**	**6.8600e-003**	**0.4125**	**0.0231**	**0.4355**	**0.1109**	**0.0212**	**0.1321**		**633.1644**	**633.1644**	**0.0221**		**633.6295**

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	lb/day										lb/day					
Off-Road	3.6557	30.0024	18.7274	0.0268		2.1148	2.1148		1.9886	1.9886	0.0000	2,687.1096	2,687.1096	0.6742		2,701.2678
Total	**3.6557**	**30.0024**	**18.7274**	**0.0268**		**2.1148**	**2.1148**		**1.9886**	**1.9886**	**0.0000**	**2,687.1096**	**2,687.1096**	**0.6742**		**2,701.2678**

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	lb/day										lb/day					
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
Vendor	0.2811	1.2250	1.3558	2.6200e-003	0.0730	0.0202	0.0932	0.0208	0.0186	0.0394		265.2653	265.2653	2.3400e-003		265.3145
Worker	0.6760	0.1981	2.3726	4.2400e-003	0.3395	2.8300e-003	0.3423	0.0900	2.5900e-003	0.0926		367.8991	367.8991	0.0198		368.3150
Total	**0.9572**	**1.4231**	**3.7284**	**6.8600e-003**	**0.4125**	**0.0231**	**0.4355**	**0.1109**	**0.0212**	**0.1321**		**633.1644**	**633.1644**	**0.0221**		**633.6295**

3.6 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	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	**3.4062**	**28.5063**	**18.5066**	**0.0268**		**1.9674**	**1.9674**		**1.8485**	**1.8485**		**2,669.2864**	**2,669.2864**	**0.6620**		**2,683.1890**

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	lb/day											lb/day				
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
Vendor	0.2486	1.0659	1.2279	2.6200e-003	0.0730	0.0162	0.0892	0.0208	0.0149	0.0357		262.1705	262.1705	2.0700e-003		262.2140
Worker	0.6260	0.1777	2.1298	4.2400e-003	0.3395	2.6700e-003	0.3422	0.0900	2.4500e-003	0.0925		355.3576	355.3576	0.0181		355.7372
Total	**0.8746**	**1.2436**	**3.3577**	**6.8600e-003**	**0.4125**	**0.0189**	**0.4313**	**0.1109**	**0.0173**	**0.1282**		**617.5281**	**617.5281**	**0.0202**		**617.9512**

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	lb/day										lb/day					
Off-Road	3.4031	28.4802	18.4897	0.0268		1.9656	1.9656		1.8468	1.8468	0.0000	2,666.8375	2,666.8375	0.6614		2,680.7273
Total	**3.4031**	**28.4802**	**18.4897**	**0.0268**		**1.9656**	**1.9656**		**1.8468**	**1.8468**	**0.0000**	**2,666.8375**	**2,666.8375**	**0.6614**		**2,680.7273**

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	lb/day										lb/day					
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
Vendor	0.2486	1.0659	1.2279	2.6200e-003	0.0730	0.0162	0.0892	0.0208	0.0149	0.0357		262.1705	262.1705	2.0700e-003		262.2140

Worker	0.6260	0.1777	2.1298	4.2400e-003	0.3395	2.6700e-003	0.3422	0.0900	2.4500e-003	0.0925		355.3576	355.3576	0.0181		355.7372
Total	**0.8746**	**1.2436**	**3.3577**	**6.8600e-003**	**0.4125**	**0.0189**	**0.4313**	**0.1109**	**0.0173**	**0.1282**		**617.5281**	**617.5281**	**0.0202**		**617.9512**

3.6 Building Construction - 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	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

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	lb/day										lb/day					
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
Vendor	0.2315	0.9559	1.1557	2.6100e-003	0.0730	0.0140	0.0870	0.0208	0.0129	0.0337		257.7922	257.7922	1.9600e-003		257.8335
Worker	0.5766	0.1590	1.9007	4.2300e-003	0.3395	2.5400e-003	0.3420	0.0900	2.3400e-003	0.0924		341.8471	341.8471	0.0165		342.1937
Total	**0.8081**	**1.1150**	**3.0564**	**6.8400e-003**	**0.4125**	**0.0166**	**0.4290**	**0.1109**	**0.0152**	**0.1261**		**599.6394**	**599.6394**	**0.0185**		**600.0271**

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	lb/day										lb/day					
Off-Road	3.0995	26.3814	18.1125	0.0268		1.7796	1.7796		1.6714	1.6714	0.0000	2,637.3834	2,637.3834	0.6491		2,651.0146
Total	**3.0995**	**26.3814**	**18.1125**	**0.0268**		**1.7796**	**1.7796**		**1.6714**	**1.6714**	**0.0000**	**2,637.3834**	**2,637.3834**	**0.6491**		**2,651.0146**

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	lb/day										lb/day					
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
Vendor	0.2315	0.9559	1.1557	2.6100e-003	0.0730	0.0140	0.0870	0.0208	0.0129	0.0337		257.7922	257.7922	1.9600e-003		257.8335
Worker	0.5766	0.1590	1.9007	4.2300e-003	0.3395	2.5400e-003	0.3420	0.0900	2.3400e-003	0.0924		341.8471	341.8471	0.0165		342.1937
Total	**0.8081**	**1.1150**	**3.0564**	**6.8400e-003**	**0.4125**	**0.0166**	**0.4290**	**0.1109**	**0.0152**	**0.1261**		**599.6394**	**599.6394**	**0.0185**		**600.0271**

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	lb/day										lb/day					

Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**72.8119**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

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	lb/day										lb/day					
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
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
Worker	0.1315	0.0385	0.4613	8.2000e-004	0.0660	5.5000e-004	0.0666	0.0175	5.0000e-004	0.0180		71.5359	71.5359	3.8500e-003		71.6168
Total	**0.1315**	**0.0385**	**0.4613**	**8.2000e-004**	**0.0660**	**5.5000e-004**	**0.0666**	**0.0175**	**5.0000e-004**	**0.0180**		**71.5359**	**71.5359**	**3.8500e-003**		**71.6168**

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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4062	2.5680	1.9000	2.9700e-003		0.2207	0.2207		0.2207	0.2207	0.0000	281.1898	281.1898	0.0366		281.9587
Total	**72.8115**	**2.5680**	**1.9000**	**2.9700e-003**		**0.2207**	**0.2207**		**0.2207**	**0.2207**	**0.0000**	**281.1898**	**281.1898**	**0.0366**		**281.9587**

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	lb/day										lb/day					
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
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
Worker	0.1315	0.0385	0.4613	8.2000e-004	0.0660	5.5000e-004	0.0666	0.0175	5.0000e-004	0.0180		71.5359	71.5359	3.8500e-003		71.6168
Total	**0.1315**	**0.0385**	**0.4613**	**8.2000e-004**	**0.0660**	**5.5000e-004**	**0.0666**	**0.0175**	**5.0000e-004**	**0.0180**		**71.5359**	**71.5359**	**3.8500e-003**		**71.6168**

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**72.7738**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

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	lb/day										lb/day					
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
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
Worker	0.1217	0.0346	0.4141	8.2000e-004	0.0660	5.2000e-004	0.0665	0.0175	4.8000e-004	0.0180		69.0973	69.0973	3.5100e-003		69.1711
Total	**0.1217**	**0.0346**	**0.4141**	**8.2000e-004**	**0.0660**	**5.2000e-004**	**0.0665**	**0.0175**	**4.8000e-004**	**0.0180**		**69.0973**	**69.0973**	**3.5100e-003**		**69.1711**

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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3681	2.3701	1.8822	2.9700e-003		0.1964	0.1964		0.1964	0.1964	0.0000	281.1898	281.1898	0.0332		281.8860
Total	**72.7735**	**2.3701**	**1.8822**	**2.9700e-003**		**0.1964**	**0.1964**		**0.1964**	**0.1964**	**0.0000**	**281.1898**	**281.1898**	**0.0332**		**281.8860**

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	lb/day										lb/day					
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
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

Worker	0.1217	0.0346	0.4141	8.2000e-004	0.0660	5.2000e-004	0.0665	0.0175	4.8000e-004	0.0180		69.0973	69.0973	3.5100e-003		69.1711
Total	**0.1217**	**0.0346**	**0.4141**	**8.2000e-004**	**0.0660**	**5.2000e-004**	**0.0665**	**0.0175**	**4.8000e-004**	**0.0180**		**69.0973**	**69.0973**	**3.5100e-003**		**69.1711**

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	lb/day										lb/day					
Mitigated	9.7247	7.7850	38.9804	0.0699	4.7631	0.1027	4.8658	1.2720	0.0942	1.3662		6,264.1081	6,264.1081	0.2851		6,270.0942
Unmitigated	9.7247	7.7850	38.9804	0.0699	4.7631	0.1027	4.8658	1.2720	0.0942	1.3662		6,264.1081	6,264.1081	0.2851		6,270.0942

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	957.00	1,008.00	877.00	2,127,126	2,127,126
Total	957.00	1,008.00	877.00	2,127,126	2,127,126

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.527595	0.065111	0.176365	0.146583	0.036541	0.004920	0.009546	0.020124	0.001217	0.001491	0.006333	0.002119	0.002054

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	lb/day										lb/day					
NaturalGas Mitigated	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
NaturalGas Unmitigated	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883

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	lb/day										lb/day					
Single Family Housing	13978.1	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883
Total		**0.1507**	**1.2882**	**0.5482**	**8.2200e-003**		**0.1042**	**0.1042**		**0.1042**	**0.1042**		**1,644.4803**	**1,644.4803**	**0.0315**	**0.0302**	**1,654.4883**

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	lb/day										lb/day					
Single Family Housing	12.1359	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
Total		**0.1309**	**1.1184**	**0.4759**	**7.1400e-003**		**0.0904**	**0.0904**		**0.0904**	**0.0904**		**1,427.7498**	**1,427.7498**	**0.0274**	**0.0262**	**1,436.4389**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
Mitigated	5.0417	0.0990	8.4172	4.4000e-004		0.2015	0.2015		0.1998	0.1998	0.0000	2,485.4435	2,485.4435	0.0628	0.0453	2,500.8035
Unmitigated	183.9904	2.4657	225.3843	0.0727		30.4307	30.4307		30.4298	30.4298	3,155.7722	1,373.6788	4,529.4509	2.5360	0.2563	4,662.1536

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	lb/day										lb/day					
Architectural Coating	0.6943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	179.1752	2.3667	216.9795	0.0723		30.3857	30.3857		30.3848	30.3848	3,155.7722	1,358.8235	4,514.5957	2.5206	0.2563	4,646.9740
Landscaping	0.2689	0.0990	8.4048	4.4000e-004		0.0450	0.0450		0.0450	0.0450		14.8552	14.8552	0.0155		15.1796
Total	**183.9904**	**2.4657**	**225.3843**	**0.0727**		**30.4307**	**30.4307**		**30.4298**	**30.4298**	**3,155.7722**	**1,373.6788**	**4,529.4509**	**2.5360**	**0.2563**	**4,662.1536**

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	lb/day										lb/day					
Architectural Coating	0.6943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2265	1.0000e-005	0.0124	0.0000		0.1565	0.1565		0.1548	0.1548	0.0000	2,470.5882	2,470.5882	0.0474	0.0453	2,485.6238
Landscaping	0.2689	0.0990	8.4048	4.4000e-004		0.0450	0.0450		0.0450	0.0450		14.8552	14.8552	0.0155		15.1796
Total	**5.0417**	**0.0990**	**8.4172**	**4.4000e-004**		**0.2015**	**0.2015**		**0.1998**	**0.1998**	**0.0000**	**2,485.4435**	**2,485.4435**	**0.0628**	**0.0453**	**2,500.8035**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation

Vine Hill Vesting Tentative Map

Contra Costa County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	100.00	Dwelling Unit	26.76	180,000.00	286

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	58
Climate Zone	5			**Operational Year**	2015
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

Project Characteristics -

Land Use - Lot acreage adjusted to actual.

Construction Phase - Demolition and site preparation phases reduced to 10 days each (20 total) due to minimal buildings and infrastructure removal needed.

Grading -

Demolition -

Architectural Coating - VOC adjusted from 250 to 150 g/L for exterior and to 100 g/L for interior.

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	6/27/2017	1/19/2016
tblConstructionPhase	PhaseStartDate	5/10/2017	12/2/2015
tblGrading	MaterialExported	0.00	9,000.00
tblLandUse	LotAcreage	32.47	26.76
tblProjectCharacteristics	OperationalYear	2014	2015

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

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	lb/day										lb/day					
2015	77.7786	88.0217	60.1787	0.0827	18.2360	3.9333	21.3257	9.9757	3.6186	12.8182	0.0000	8,580.7994	8,580.7994	1.9636	0.0000	8,622.0355
2016	77.3772	32.2568	24.7820	0.0370	0.4785	2.1836	2.6620	0.1284	2.0630	2.1914	0.0000	3,595.8555	3,595.8555	0.7189	0.0000	3,610.9529
2017	4.0733	27.6028	21.8040	0.0333	0.4125	1.7979	2.2104	0.1109	1.6883	1.7992	0.0000	3,205.6055	3,205.6055	0.6682	0.0000	3,219.6381
Total	**159.2290**	**147.8812**	**106.7646**	**0.1529**	**19.1269**	**7.9148**	**26.1981**	**10.2149**	**7.3699**	**16.8088**	**0.0000**	**15,382.2605**	**15,382.2605**	**3.3508**	**0.0000**	**15,452.6265**

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	lb/day										lb/day					
2015	77.7748	87.9492	60.1320	0.0826	19.0805	3.9298	23.0103	5.3589	3.6154	8.9743	0.0000	8,574.8487	8,574.8487	1.9618	0.0000	8,616.0474
2016	77.3737	32.2285	24.7633	0.0370	0.4785	2.1816	2.6600	0.1284	2.0612	2.1895	0.0000	3,593.1484	3,593.1484	0.7183	0.0000	3,608.2323
2017	4.0704	27.5785	21.7873	0.0332	0.4125	1.7963	2.2088	0.1109	1.6868	1.7977	0.0000	3,203.1837	3,203.1837	0.6676	0.0000	3,217.2037
Total	**159.2189**	**147.7562**	**106.6826**	**0.1528**	**19.9715**	**7.9077**	**27.8791**	**5.5982**	**7.3633**	**12.9615**	**0.0000**	**15,371.1807**	**15,371.1807**	**3.3477**	**0.0000**	**15,441.4835**

	ROG	NOx	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	**0.01**	**0.08**	**0.08**	**0.07**	**-4.42**	**0.09**	**-6.42**	**45.20**	**0.09**	**22.89**	**0.00**	**0.07**	**0.07**	**0.09**	**0.00**	**0.07**

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	lb/day										lb/day					
Area	183.9904	2.4657	225.3843	0.0727		30.4307	30.4307		30.4298	30.4298	3,155.7722	1,373.6788	4,529.4509	2.5360	0.2563	4,662.1536
Energy	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883
Mobile	11.1930	8.7221	43.4215	0.0646	4.7631	0.1034	4.8665	1.2720	0.0949	1.3669		5,795.0601	5,795.0601	0.2852		5,801.0500
Total	**195.3341**	**12.4760**	**269.3540**	**0.1456**	**4.7631**	**30.6382**	**35.4013**	**1.2720**	**30.6288**	**31.9008**	**3,155.7722**	**8,813.2191**	**11,968.9913**	**2.8528**	**0.2864**	**12,117.6919**

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	lb/day										lb/day					
Area	5.0417	0.0990	8.4172	4.4000e-004		0.2015	0.2015		0.1998	0.1998	0.0000	2,485.4435	2,485.4435	0.0628	0.0453	2,500.8035
Energy	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
Mobile	11.1930	8.7221	43.4215	0.0646	4.7631	0.1034	4.8665	1.2720	0.0949	1.3669		5,795.0601	5,795.0601	0.2852		5,801.0500
Total	**16.3656**	**9.9395**	**52.3146**	**0.0722**	**4.7631**	**0.3953**	**5.1584**	**1.2720**	**0.3851**	**1.6571**	**0.0000**	**9,708.2534**	**9,708.2534**	**0.3754**	**0.0715**	**9,738.2923**

	ROG	NOx	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	**91.62**	**20.33**	**80.58**	**50.42**	**0.00**	**98.71**	**85.43**	**0.00**	**98.74**	**94.81**	**100.00**	**-10.16**	**18.89**	**86.84**	**75.05**	**19.64**

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	4/15/2015	4/28/2015	5	10	
2	Site Preparation	Site Preparation	4/29/2015	5/12/2015	5	10	
3	Grading	Grading	5/13/2015	7/14/2015	5	45	
4	Paving	Paving	7/15/2015	9/1/2015	5	35	
5	Building Construction	Building Construction	9/2/2015	5/9/2017	5	440	
6	Architectural Coating	Architectural Coating	12/2/2015	1/19/2016	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 364,500; Residential Outdoor: 121,500; Non-Residential Indoor: 0; Non-Residential Outdoor: 0

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	2	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	2	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
Grading	Scrapers	2	8.00	361	0.48
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	12.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	1,125.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	36.00	11.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	12.40	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	7.00	0.00	0.00	12.40	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	lb/day										lb/day					
Fugitive Dust					0.2593	0.0000	0.2593	0.0393	0.0000	0.0393			0.0000			0.0000
Off-Road	4.5083	48.3629	36.0738	0.0399		2.4508	2.4508		2.2858	2.2858		4,127.1934	4,127.1934	1.1188		4,150.6886
Total	**4.5083**	**48.3629**	**36.0738**	**0.0399**	**0.2593**	**2.4508**	**2.7101**	**0.0393**	**2.2858**	**2.3250**		**4,127.1934**	**4,127.1934**	**1.1188**		**4,150.6886**

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	lb/day										lb/day					
Hauling	0.0938	0.4243	0.3875	9.0000e-004	0.0209	6.2200e-003	0.0271	5.7200e-003	5.7200e-003	0.0114		91.6396	91.6396	7.8000e-004		91.6560
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
Worker	0.3396	0.1019	0.9501	1.6000e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		139.0478	139.0478	8.2500e-003		139.2211
Total	**0.4334**	**0.5262**	**1.3376**	**2.5000e-003**	**0.1624**	**7.4000e-003**	**0.1698**	**0.0432**	**6.8000e-003**	**0.0500**		**230.6875**	**230.6875**	**9.0300e-003**		**230.8771**

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	lb/day										lb/day					
Fugitive Dust					0.1167	0.0000	0.1167	0.0177	0.0000	0.0177			0.0000			0.0000
Off-Road	4.5041	48.3186	36.0407	0.0399		2.4486	2.4486		2.2837	2.2837	0.0000	4,123.4069	4,123.4069	1.1178		4,146.8806
Total	**4.5041**	**48.3186**	**36.0407**	**0.0399**	**0.1167**	**2.4486**	**2.5652**	**0.0177**	**2.2837**	**2.3014**	**0.0000**	**4,123.4069**	**4,123.4069**	**1.1178**		**4,146.8806**

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	lb/day										lb/day					
Hauling	0.0938	0.4243	0.3875	9.0000e-004	0.1637	6.2200e-003	0.1699	0.0408	5.7200e-003	0.0465		91.6396	91.6396	7.8000e-004		91.6560
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
Worker	0.3396	0.1019	0.9501	1.6000e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		139.0478	139.0478	8.2500e-003		139.2211
Total	**0.4334**	**0.5262**	**1.3376**	**2.5000e-003**	**0.3051**	**7.4000e-003**	**0.3125**	**0.0783**	**6.8000e-003**	**0.0851**		**230.6875**	**230.6875**	**9.0300e-003**		**230.8771**

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	lb/day										lb/day					

Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	5.2609	56.8897	42.6318	0.0391		3.0883	3.0883		2.8412	2.8412		4,111.7444	4,111.7444	1.2275		4,137.5225
Total	**5.2609**	**56.8897**	**42.6318**	**0.0391**	**18.0663**	**3.0883**	**21.1545**	**9.9307**	**2.8412**	**12.7719**		**4,111.7444**	**4,111.7444**	**1.2275**		**4,137.5225**

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	lb/day										lb/day					
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
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
Worker	0.4075	0.1223	1.1401	1.9200e-003	0.1698	1.4200e-003	0.1712	0.0450	1.2900e-003	0.0463		166.8574	166.8574	9.9000e-003		167.0654
Total	**0.4075**	**0.1223**	**1.1401**	**1.9200e-003**	**0.1698**	**1.4200e-003**	**0.1712**	**0.0450**	**1.2900e-003**	**0.0463**		**166.8574**	**166.8574**	**9.9000e-003**		**167.0654**

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	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	5.2561	56.8375	42.5927	0.0391		3.0855	3.0855		2.8386	2.8386	0.0000	4,107.9721	4,107.9721	1.2264		4,133.7265
Total	**5.2561**	**56.8375**	**42.5927**	**0.0391**	**8.1298**	**3.0855**	**11.2153**	**4.4688**	**2.8386**	**7.3074**	**0.0000**	**4,107.9721**	**4,107.9721**	**1.2264**		**4,133.7265**

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	lb/day										lb/day					
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
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
Worker	0.4075	0.1223	1.1401	1.9200e-003	0.1698	1.4200e-003	0.1712	0.0450	1.2900e-003	0.0463		166.8574	166.8574	9.9000e-003		167.0654
Total	**0.4075**	**0.1223**	**1.1401**	**1.9200e-003**	**0.1698**	**1.4200e-003**	**0.1712**	**0.0450**	**1.2900e-003**	**0.0463**		**166.8574**	**166.8574**	**9.9000e-003**		**167.0654**

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	lb/day										lb/day					
Fugitive Dust					8.6960	0.0000	8.6960	3.5999	0.0000	3.5999			0.0000			0.0000
Off-Road	6.7751	79.0467	50.8400	0.0618		3.8022	3.8022		3.4980	3.4980		6,486.2433	6,486.2433	1.9364		6,526.9080
Total	**6.7751**	**79.0467**	**50.8400**	**0.0618**	**8.6960**	**3.8022**	**12.4981**	**3.5999**	**3.4980**	**7.0979**		**6,486.2433**	**6,486.2433**	**1.9364**		**6,526.9080**

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	lb/day											lb/day				
Hauling	1.9546	8.8392	8.0719	0.0188	0.4355	0.1295	0.5650	0.1192	0.1191	0.2384		1,909.1590	1,909.1590	0.0162		1,909.4993
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
Worker	0.4528	0.1359	1.2668	2.1300e-003	0.1886	1.5700e-003	0.1902	0.0500	1.4400e-003	0.0515		185.3971	185.3971	0.0110		185.6282
Total	**2.4073**	**8.9750**	**9.3387**	**0.0209**	**0.6241**	**0.1311**	**0.7552**	**0.1693**	**0.1206**	**0.2898**		**2,094.5561**	**2,094.5561**	**0.0272**		**2,095.1275**

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	lb/day										lb/day					
Fugitive Dust					3.9132	0.0000	3.9132	1.6200	0.0000	1.6200			0.0000			0.0000
Off-Road	6.7689	78.9742	50.7933	0.0617		3.7987	3.7987		3.4948	3.4948	0.0000	6,480.2925	6,480.2925	1.9346		6,520.9199
Total	**6.7689**	**78.9742**	**50.7933**	**0.0617**	**3.9132**	**3.7987**	**7.7119**	**1.6200**	**3.4948**	**5.1148**	**0.0000**	**6,480.2925**	**6,480.2925**	**1.9346**		**6,520.9199**

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	lb/day										lb/day					
Hauling	1.9546	8.8392	8.0719	0.0188	14.9787	0.1295	15.1083	3.6890	0.1191	3.8081		1,909.1590	1,909.1590	0.0162		1,909.4993
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

Worker	0.4528	0.1359	1.2668	2.1300e-003	0.1886	1.5700e-003	0.1902	0.0500	1.4400e-003	0.0515		185.3971	185.3971	0.0110		185.6282
Total	**2.4073**	**8.9750**	**9.3387**	**0.0209**	**15.1674**	**0.1311**	**15.2985**	**3.7390**	**0.1206**	**3.8595**		**2,094.5561**	**2,094.5561**	**0.0272**		**2,095.1275**

3.5 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	lb/day										lb/day					
Off-Road	2.3172	25.1758	14.9781	0.0223		1.4148	1.4148		1.3016	1.3016		2,339.8984	2,339.8984	0.6986		2,354.5681
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3172**	**25.1758**	**14.9781**	**0.0223**		**1.4148**	**1.4148**		**1.3016**	**1.3016**		**2,339.8984**	**2,339.8984**	**0.6986**		**2,354.5681**

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	lb/day										lb/day					
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
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
Worker	0.3396	0.1019	0.9501	1.6000e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		139.0478	139.0478	8.2500e-003		139.2211
Total	**0.3396**	**0.1019**	**0.9501**	**1.6000e-003**	**0.1415**	**1.1800e-003**	**0.1426**	**0.0375**	**1.0800e-003**	**0.0386**		**139.0478**	**139.0478**	**8.2500e-003**		**139.2211**

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	lb/day										lb/day					
Off-Road	2.3151	25.1527	14.9643	0.0223		1.4135	1.4135		1.3004	1.3004	0.0000	2,337.7516	2,337.7516	0.6979		2,352.4079
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**2.3151**	**25.1527**	**14.9643**	**0.0223**		**1.4135**	**1.4135**		**1.3004**	**1.3004**	**0.0000**	**2,337.7516**	**2,337.7516**	**0.6979**		**2,352.4079**

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	lb/day										lb/day					
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
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
Worker	0.3396	0.1019	0.9501	1.6000e-003	0.1415	1.1800e-003	0.1426	0.0375	1.0800e-003	0.0386		139.0478	139.0478	8.2500e-003		139.2211
Total	**0.3396**	**0.1019**	**0.9501**	**1.6000e-003**	**0.1415**	**1.1800e-003**	**0.1426**	**0.0375**	**1.0800e-003**	**0.0386**		**139.0478**	**139.0478**	**8.2500e-003**		**139.2211**

3.6 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	lb/day										lb/day					

Off-Road	3.6591	30.0299	18.7446	0.0268		2.1167	2.1167		1.9904	1.9904		2,689.5771	2,689.5771	0.6748		2,703.7483
Total	**3.6591**	**30.0299**	**18.7446**	**0.0268**		**2.1167**	**2.1167**		**1.9904**	**1.9904**		**2,689.5771**	**2,689.5771**	**0.6748**		**2,703.7483**

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	lb/day										lb/day					
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
Vendor	0.3341	1.2833	2.1023	2.6100e-003	0.0730	0.0205	0.0935	0.0208	0.0188	0.0397		263.2411	263.2411	2.4000e-003		263.2914
Worker	0.8150	0.2446	2.2802	3.8400e-003	0.3395	2.8300e-003	0.3423	0.0900	2.5900e-003	0.0926		333.7148	333.7148	0.0198		334.1307
Total	**1.1491**	**1.5278**	**4.3826**	**6.4500e-003**	**0.4125**	**0.0233**	**0.4358**	**0.1109**	**0.0214**	**0.1323**		**596.9559**	**596.9559**	**0.0222**		**597.4221**

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	lb/day										lb/day					
Off-Road	3.6557	30.0024	18.7274	0.0268		2.1148	2.1148		1.9886	1.9886	0.0000	2,687.1096	2,687.1096	0.6742		2,701.2678
Total	**3.6557**	**30.0024**	**18.7274**	**0.0268**		**2.1148**	**2.1148**		**1.9886**	**1.9886**	**0.0000**	**2,687.1096**	**2,687.1096**	**0.6742**		**2,701.2678**

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	lb/day										lb/day					
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
Vendor	0.3341	1.2833	2.1023	2.6100e-003	0.0730	0.0205	0.0935	0.0208	0.0188	0.0397		263.2411	263.2411	2.4000e-003		263.2914
Worker	0.8150	0.2446	2.2802	3.8400e-003	0.3395	2.8300e-003	0.3423	0.0900	2.5900e-003	0.0926		333.7148	333.7148	0.0198		334.1307
Total	**1.1491**	**1.5278**	**4.3826**	**6.4500e-003**	**0.4125**	**0.0233**	**0.4358**	**0.1109**	**0.0214**	**0.1323**		**596.9559**	**596.9559**	**0.0222**		**597.4221**

3.6 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	lb/day										lb/day					
Off-Road	3.4062	28.5063	18.5066	0.0268		1.9674	1.9674		1.8485	1.8485		2,669.2864	2,669.2864	0.6620		2,683.1890
Total	**3.4062**	**28.5063**	**18.5066**	**0.0268**		**1.9674**	**1.9674**		**1.8485**	**1.8485**		**2,669.2864**	**2,669.2864**	**0.6620**		**2,683.1890**

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	lb/day											lb/day				
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
Vendor	0.2952	1.1162	1.9647	2.6100e-003	0.0730	0.0164	0.0893	0.0208	0.0150	0.0359		260.1589	260.1589	2.1200e-003		260.2034
Worker	0.7551	0.2194	2.0317	3.8400e-003	0.3395	2.6700e-003	0.3422	0.0900	2.4500e-003	0.0925		322.2939	322.2939	0.0181		322.6735
Total	**1.0503**	**1.3356**	**3.9964**	**6.4500e-003**	**0.4125**	**0.0190**	**0.4315**	**0.1109**	**0.0175**	**0.1284**		**582.4528**	**582.4528**	**0.0202**		**582.8769**

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	lb/day										lb/day					
Off-Road	3.4031	28.4802	18.4897	0.0268		1.9656	1.9656		1.8468	1.8468	0.0000	2,666.8375	2,666.8375	0.6614		2,680.7273
Total	**3.4031**	**28.4802**	**18.4897**	**0.0268**		**1.9656**	**1.9656**		**1.8468**	**1.8468**	**0.0000**	**2,666.8375**	**2,666.8375**	**0.6614**		**2,680.7273**

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	lb/day										lb/day					
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
Vendor	0.2952	1.1162	1.9647	2.6100e-003	0.0730	0.0164	0.0893	0.0208	0.0150	0.0359		260.1589	260.1589	2.1200e-003		260.2034

Worker	0.7551	0.2194	2.0317	3.8400e-003	0.3395	2.6700e-003	0.3422	0.0900	2.4500e-003	0.0925		322.2939	322.2939	0.0181		322.6735
Total	**1.0503**	**1.3356**	**3.9964**	**6.4500e-003**	**0.4125**	**0.0190**	**0.4315**	**0.1109**	**0.0175**	**0.1284**		**582.4528**	**582.4528**	**0.0202**		**582.8769**

3.6 Building Construction - 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	lb/day										lb/day					
Off-Road	3.1024	26.4057	18.1291	0.0268		1.7812	1.7812		1.6730	1.6730		2,639.8053	2,639.8053	0.6497		2,653.4490
Total	**3.1024**	**26.4057**	**18.1291**	**0.0268**		**1.7812**	**1.7812**		**1.6730**	**1.6730**		**2,639.8053**	**2,639.8053**	**0.6497**		**2,653.4490**

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	lb/day										lb/day					
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
Vendor	0.2746	1.0007	1.8791	2.6000e-003	0.0730	0.0142	0.0871	0.0208	0.0130	0.0338		255.8082	255.8082	2.0100e-003		255.8505
Worker	0.6964	0.1964	1.7957	3.8400e-003	0.3395	2.5400e-003	0.3420	0.0900	2.3400e-003	0.0924		309.9920	309.9920	0.0165		310.3386
Total	**0.9709**	**1.1971**	**3.6748**	**6.4400e-003**	**0.4125**	**0.0167**	**0.4292**	**0.1109**	**0.0154**	**0.1262**		**565.8002**	**565.8002**	**0.0185**		**566.1891**

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	lb/day										lb/day					
Off-Road	3.0995	26.3814	18.1125	0.0268		1.7796	1.7796		1.6714	1.6714	0.0000	2,637.3834	2,637.3834	0.6491		2,651.0146
Total	**3.0995**	**26.3814**	**18.1125**	**0.0268**		**1.7796**	**1.7796**		**1.6714**	**1.6714**	**0.0000**	**2,637.3834**	**2,637.3834**	**0.6491**		**2,651.0146**

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	lb/day										lb/day					
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
Vendor	0.2746	1.0007	1.8791	2.6000e-003	0.0730	0.0142	0.0871	0.0208	0.0130	0.0338		255.8082	255.8082	2.0100e-003		255.8505
Worker	0.6964	0.1964	1.7957	3.8400e-003	0.3395	2.5400e-003	0.3420	0.0900	2.3400e-003	0.0924		309.9920	309.9920	0.0165		310.3386
Total	**0.9709**	**1.1971**	**3.6748**	**6.4400e-003**	**0.4125**	**0.0167**	**0.4292**	**0.1109**	**0.0154**	**0.1262**		**565.8002**	**565.8002**	**0.0185**		**566.1891**

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	lb/day										lb/day					

Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4066	2.5703	1.9018	2.9700e-003		0.2209	0.2209		0.2209	0.2209		281.4481	281.4481	0.0367		282.2177
Total	**72.8119**	**2.5703**	**1.9018**	**2.9700e-003**		**0.2209**	**0.2209**		**0.2209**	**0.2209**		**281.4481**	**281.4481**	**0.0367**		**282.2177**

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	lb/day										lb/day					
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
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
Worker	0.1585	0.0476	0.4434	7.5000e-004	0.0660	5.5000e-004	0.0666	0.0175	5.0000e-004	0.0180		64.8890	64.8890	3.8500e-003		64.9699
Total	**0.1585**	**0.0476**	**0.4434**	**7.5000e-004**	**0.0660**	**5.5000e-004**	**0.0666**	**0.0175**	**5.0000e-004**	**0.0180**		**64.8890**	**64.8890**	**3.8500e-003**		**64.9699**

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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.4062	2.5680	1.9000	2.9700e-003		0.2207	0.2207		0.2207	0.2207	0.0000	281.1898	281.1898	0.0366		281.9587
Total	**72.8115**	**2.5680**	**1.9000**	**2.9700e-003**		**0.2207**	**0.2207**		**0.2207**	**0.2207**	**0.0000**	**281.1898**	**281.1898**	**0.0366**		**281.9587**

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	lb/day										lb/day					
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
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
Worker	0.1585	0.0476	0.4434	7.5000e-004	0.0660	5.5000e-004	0.0666	0.0175	5.0000e-004	0.0180		64.8890	64.8890	3.8500e-003		64.9699
Total	**0.1585**	**0.0476**	**0.4434**	**7.5000e-004**	**0.0660**	**5.5000e-004**	**0.0666**	**0.0175**	**5.0000e-004**	**0.0180**		**64.8890**	**64.8890**	**3.8500e-003**		**64.9699**

3.7 Architectural Coating - 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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3685	2.3722	1.8839	2.9700e-003		0.1966	0.1966		0.1966	0.1966		281.4481	281.4481	0.0332		282.1449
Total	**72.7738**	**2.3722**	**1.8839**	**2.9700e-003**		**0.1966**	**0.1966**		**0.1966**	**0.1966**		**281.4481**	**281.4481**	**0.0332**		**282.1449**

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	lb/day										lb/day					
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
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
Worker	0.1468	0.0427	0.3951	7.5000e-004	0.0660	5.2000e-004	0.0665	0.0175	4.8000e-004	0.0180		62.6683	62.6683	3.5100e-003		62.7421
Total	**0.1468**	**0.0427**	**0.3951**	**7.5000e-004**	**0.0660**	**5.2000e-004**	**0.0665**	**0.0175**	**4.8000e-004**	**0.0180**		**62.6683**	**62.6683**	**3.5100e-003**		**62.7421**

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	lb/day										lb/day					
Archit. Coating	72.4053					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3681	2.3701	1.8822	2.9700e-003		0.1964	0.1964		0.1964	0.1964	0.0000	281.1898	281.1898	0.0332		281.8860
Total	**72.7735**	**2.3701**	**1.8822**	**2.9700e-003**		**0.1964**	**0.1964**		**0.1964**	**0.1964**	**0.0000**	**281.1898**	**281.1898**	**0.0332**		**281.8860**

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	lb/day										lb/day					
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
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

Worker	0.1468	0.0427	0.3951	7.5000e-004	0.0660	5.2000e-004	0.0665	0.0175	4.8000e-004	0.0180		62.6683	62.6683	3.5100e-003		62.7421
Total	**0.1468**	**0.0427**	**0.3951**	**7.5000e-004**	**0.0660**	**5.2000e-004**	**0.0665**	**0.0175**	**4.8000e-004**	**0.0180**		**62.6683**	**62.6683**	**3.5100e-003**		**62.7421**

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	lb/day										lb/day					
Mitigated	11.1930	8.7221	43.4215	0.0646	4.7631	0.1034	4.8665	1.2720	0.0949	1.3669		5,795.0601	5,795.0601	0.2852		5,801.0500
Unmitigated	11.1930	8.7221	43.4215	0.0646	4.7631	0.1034	4.8665	1.2720	0.0949	1.3669		5,795.0601	5,795.0601	0.2852		5,801.0500

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	957.00	1,008.00	877.00	2,127,126	2,127,126
Total	957.00	1,008.00	877.00	2,127,126	2,127,126

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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	12.40	4.30	5.40	26.10	29.10	44.80	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.527595	0.065111	0.176365	0.146583	0.036541	0.004920	0.009546	0.020124	0.001217	0.001491	0.006333	0.002119	0.002054

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

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	lb/day										lb/day					
NaturalGas Mitigated	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
NaturalGas Unmitigated	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883

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	lb/day										lb/day					
Single Family Housing	13978.1	0.1507	1.2882	0.5482	8.2200e-003		0.1042	0.1042		0.1042	0.1042		1,644.4803	1,644.4803	0.0315	0.0302	1,654.4883
Total		**0.1507**	**1.2882**	**0.5482**	**8.2200e-003**		**0.1042**	**0.1042**		**0.1042**	**0.1042**		**1,644.4803**	**1,644.4803**	**0.0315**	**0.0302**	**1,654.4883**

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	lb/day										lb/day					
Single Family Housing	12.1359	0.1309	1.1184	0.4759	7.1400e-003		0.0904	0.0904		0.0904	0.0904		1,427.7498	1,427.7498	0.0274	0.0262	1,436.4389
Total		**0.1309**	**1.1184**	**0.4759**	**7.1400e-003**		**0.0904**	**0.0904**		**0.0904**	**0.0904**		**1,427.7498**	**1,427.7498**	**0.0274**	**0.0262**	**1,436.4389**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use only Natural Gas Hearths

	ROG	NOx	CO	SO2	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	lb/day										lb/day					
Mitigated	5.0417	0.0990	8.4172	4.4000e-004		0.2015	0.2015		0.1998	0.1998	0.0000	2,485.4435	2,485.4435	0.0628	0.0453	2,500.8035
Unmitigated	183.9904	2.4657	225.3843	0.0727		30.4307	30.4307		30.4298	30.4298	3,155.7722	1,373.6788	4,529.4509	2.5360	0.2563	4,662.1536

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	lb/day										lb/day					
Architectural Coating	0.6943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	179.1752	2.3667	216.9795	0.0723		30.3857	30.3857		30.3848	30.3848	3,155.7722	1,358.8235	4,514.5957	2.5206	0.2563	4,646.9740
Landscaping	0.2689	0.0990	8.4048	4.4000e-004		0.0450	0.0450		0.0450	0.0450		14.8552	14.8552	0.0155		15.1796
Total	**183.9904**	**2.4657**	**225.3843**	**0.0727**		**30.4307**	**30.4307**		**30.4298**	**30.4298**	**3,155.7722**	**1,373.6788**	**4,529.4509**	**2.5360**	**0.2563**	**4,662.1536**

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	lb/day										lb/day					
Architectural Coating	0.6943					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	3.8520					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.2265	1.0000e-005	0.0124	0.0000		0.1565	0.1565		0.1548	0.1548	0.0000	2,470.5882	2,470.5882	0.0474	0.0453	2,485.6238
Landscaping	0.2689	0.0990	8.4048	4.4000e-004		0.0450	0.0450		0.0450	0.0450		14.8552	14.8552	0.0155		15.1796
Total	**5.0417**	**0.0990**	**8.4172**	**4.4000e-004**		**0.2015**	**0.2015**		**0.1998**	**0.1998**	**0.0000**	**2,485.4435**	**2,485.4435**	**0.0628**	**0.0453**	**2,500.8035**

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

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Vegetation