

APPENDIX A

Air Quality Modeling

Honolulu Village Project South Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.54	23,534.00	0
Condo/Townhouse	28.00	Dwelling Unit	1.75	38,287.00	80

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2019
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 28 multifamily residential units across a 43,609 square foot site, or approximately 1 acre.

Construction Phase - Construction would take approximately 14 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - 43,609 square feet, or approximately 1-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstructionPhase	NumDays	10.00	70.00
tblConstructionPhase	NumDays	220.00	210.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	2/7/2018	1/26/2018
tblConstructionPhase	PhaseEndDate	2/23/2018	11/29/2017
tblConstructionPhase	PhaseStartDate	11/2/2017	10/23/2017
tblConstructionPhase	PhaseStartDate	1/27/2018	11/2/2017
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	10.00	1.00
tblGrading	AcresOfGrading	15.00	1.00

tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LandUseSquareFeet	28,000.00	38,287.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	49.00	1,058.00
tblTripsAndVMT	HaulingTripNumber	0.00	622.00
tblWoodstoves	NumberCatalytic	1.40	0.00
tblWoodstoves	NumberNoncatalytic	1.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2016	0.0764	0.8548	0.6162	1.0700e-003	0.0831	0.0398	0.1229	0.0385	0.0370	0.0754	0.0000	98.4647	98.4647	0.0137	0.0000	98.7516
2017	0.7072	2.8446	2.2496	3.6700e-003	0.1081	0.1760	0.2841	0.0458	0.1681	0.2139	0.0000	309.5604	309.5604	0.0592	0.0000	310.8043
2018	0.1239	0.0204	0.0216	4.0000e-005	6.6000e-004	1.5100e-003	2.1700e-003	1.7000e-004	1.5100e-003	1.6900e-003	0.0000	3.1242	3.1242	2.7000e-004	0.0000	3.1299
Total	0.9075	3.7198	2.8874	4.7800e-003	0.1919	0.2174	0.4092	0.0845	0.2065	0.2910	0.0000	411.1493	411.1493	0.0732	0.0000	412.6859

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					
2016	0.0260	0.4631	0.4967	1.0700e-003	0.0425	0.0167	0.0592	0.0177	0.0165	0.0342	0.0000	98.4647	98.4647	0.0137	0.0000	98.7516
2017	0.4046	1.6985	2.1386	3.6700e-003	0.0711	0.0970	0.1681	0.0256	0.0969	0.1225	0.0000	309.5601	309.5601	0.0592	0.0000	310.8040
2018	0.1215	0.0139	0.0213	4.0000e-005	6.6000e-004	9.6000e-004	1.6100e-003	1.7000e-004	9.6000e-004	1.1300e-003	0.0000	3.1242	3.1242	2.7000e-004	0.0000	3.1299
Total	0.5521	2.1755	2.6566	4.7800e-003	0.1142	0.1147	0.2289	0.0435	0.1143	0.1578	0.0000	411.1489	411.1489	0.0732	0.0000	412.6855

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	39.16	41.52	7.99	0.00	40.48	47.24	44.07	48.53	44.66	45.78	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321
Energy	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	162.4544	162.4544	4.0900e-003	1.1300e-003	162.8912
Mobile	0.1015	0.3222	1.2017	3.5000e-003	0.2392	4.8400e-003	0.2441	0.0640	4.4700e-003	0.0685	0.0000	254.2413	254.2413	9.2500e-003	0.0000	254.4356
Waste						0.0000	0.0000		0.0000	0.0000	2.6145	0.0000	2.6145	0.1545	0.0000	5.8593
Water						0.0000	0.0000		0.0000	0.0000	0.5788	18.4818	19.0606	0.0599	1.5000e-003	20.7849
Total	0.3786	0.3428	1.4995	3.6300e-003	0.2392	8.2200e-003	0.2475	0.0640	7.8500e-003	0.0719	3.1933	441.3650	444.5583	0.2284	2.7300e-003	450.2030

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321
Energy	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	162.4544	162.4544	4.0900e-003	1.1300e-003	162.8912
Mobile	0.1015	0.3222	1.2017	3.5000e-003	0.2392	4.8400e-003	0.2441	0.0640	4.4700e-003	0.0685	0.0000	254.2413	254.2413	9.2500e-003	0.0000	254.4356
Waste						0.0000	0.0000		0.0000	0.0000	1.3073	0.0000	1.3073	0.0773	0.0000	2.9297
Water						0.0000	0.0000		0.0000	0.0000	0.4630	15.6840	16.1470	0.0480	1.2100e-003	17.5277
Total	0.3786	0.3428	1.4995	3.6300e-003	0.2392	8.2200e-003	0.2475	0.0640	7.8500e-003	0.0719	1.7703	438.5671	440.3374	0.1391	2.4400e-003	444.0162

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	44.56	0.63	0.95	39.07	10.62	1.37

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	11/1/2016	11/30/2016	5	22	
2	Site Preparation	Site Preparation	12/1/2016	12/14/2016	5	10	
3	Grading	Grading	12/15/2016	1/11/2017	5	20	
4	Building Construction	Building Construction	1/12/2017	11/1/2017	5	210	
5	Architectural Coating	Architectural Coating	10/23/2017	1/26/2018	5	70	
6	Paving	Paving	11/2/2017	11/29/2017	5	20	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 77,531; Residential Outdoor: 25,844; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Scrapers	1	8.00	361	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	1,058.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	622.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					5.2700e-003	0.0000	5.2700e-003	8.0000e-004	0.0000	8.0000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0320	0.3108	0.2365	2.7000e-004		0.0192	0.0192		0.0180	0.0180	0.0000	24.8192	24.8192	6.2700e-003	0.0000	24.9509
Total	0.0320	0.3108	0.2365	2.7000e-004	5.2700e-003	0.0192	0.0245	8.0000e-004	0.0180	0.0188	0.0000	24.8192	24.8192	6.2700e-003	0.0000	24.9509

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4800e-003	0.1543	0.1159	3.9000e-004	9.0700e-003	2.2700e-003	0.0113	2.4900e-003	2.0900e-003	4.5700e-003	0.0000	35.6712	35.6712	2.6000e-004	0.0000	35.6766
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	5.7000e-004	8.4000e-004	8.7600e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4699	1.4699	8.0000e-005	0.0000	1.4716
Total	0.0101	0.1551	0.1246	4.1000e-004	0.0106	2.2800e-003	0.0129	2.9100e-003	2.1000e-003	5.0000e-003	0.0000	37.1411	37.1411	3.4000e-004	0.0000	37.1482

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					2.0500e-003	0.0000	2.0500e-003	3.1000e-004	0.0000	3.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.2600e-003	0.1346	0.1712	2.7000e-004		7.9500e-003	7.9500e-003		7.9500e-003	7.9500e-003	0.0000	24.8191	24.8191	6.2700e-003	0.0000	24.9509
Total	6.2600e-003	0.1346	0.1712	2.7000e-004	2.0500e-003	7.9500e-003	0.0100	3.1000e-004	7.9500e-003	8.2600e-003	0.0000	24.8191	24.8191	6.2700e-003	0.0000	24.9509

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	9.4800e-003	0.1543	0.1159	3.9000e-004	9.0700e-003	2.2700e-003	0.0113	2.4900e-003	2.0900e-003	4.5700e-003	0.0000	35.6712	35.6712	2.6000e-004	0.0000	35.6766
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	5.7000e-004	8.4000e-004	8.7600e-003	2.0000e-005	1.5700e-003	1.0000e-005	1.5800e-003	4.2000e-004	1.0000e-005	4.3000e-004	0.0000	1.4699	1.4699	8.0000e-005	0.0000	1.4716
Total	0.0101	0.1551	0.1246	4.1000e-004	0.0106	2.2800e-003	0.0129	2.9100e-003	2.1000e-003	5.0000e-003	0.0000	37.1411	37.1411	3.4000e-004	0.0000	37.1482

3.3 Site Preparation - 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					
Fugitive Dust					5.3000e-004	0.0000	5.3000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0135	0.1541	0.0903	1.2000e-004		7.5600e-003	7.5600e-003		6.9500e-003	6.9500e-003	0.0000	11.2495	11.2495	3.3900e-003	0.0000	11.3208
Total	0.0135	0.1541	0.0903	1.2000e-004	5.3000e-004	7.5600e-003	8.0900e-003	6.0000e-005	6.9500e-003	7.0100e-003	0.0000	11.2495	11.2495	3.3900e-003	0.0000	11.3208

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.4000e-004	2.4500e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4112	0.4112	2.0000e-005	0.0000	0.4116
Total	1.6000e-004	2.4000e-004	2.4500e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4112	0.4112	2.0000e-005	0.0000	0.4116

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					2.1000e-004	0.0000	2.1000e-004	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9200e-003	0.0576	0.0733	1.2000e-004		2.5800e-003	2.5800e-003		2.5800e-003	2.5800e-003	0.0000	11.2495	11.2495	3.3900e-003	0.0000	11.3208
Total	2.9200e-003	0.0576	0.0733	1.2000e-004	2.1000e-004	2.5800e-003	2.7900e-003	2.0000e-005	2.5800e-003	2.6000e-003	0.0000	11.2495	11.2495	3.3900e-003	0.0000	11.3208

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6000e-004	2.4000e-004	2.4500e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4112	0.4112	2.0000e-005	0.0000	0.4116
Total	1.6000e-004	2.4000e-004	2.4500e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.4112	0.4112	2.0000e-005	0.0000	0.4116

3.4 Grading - 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					
Fugitive Dust					0.0608	0.0000	0.0608	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0171	0.1797	0.1178	1.2000e-004		0.0100	0.0100		9.2000e-003	9.2000e-003	0.0000	11.6443	11.6443	3.5100e-003	0.0000	11.7181
Total	0.0171	0.1797	0.1178	1.2000e-004	0.0608	0.0100	0.0708	0.0332	9.2000e-003	0.0424	0.0000	11.6443	11.6443	3.5100e-003	0.0000	11.7181

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3500e-003	0.0544	0.0409	1.4000e-004	4.8100e-003	8.0000e-004	5.6100e-003	1.2700e-003	7.4000e-004	2.0100e-003	0.0000	12.5827	12.5827	9.0000e-005	0.0000	12.5846
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.5000e-004	3.6700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6167	0.6167	3.0000e-005	0.0000	0.6174
Total	3.5900e-003	0.0548	0.0446	1.5000e-004	5.4700e-003	8.1000e-004	6.2700e-003	1.4400e-003	7.5000e-004	2.1900e-003	0.0000	13.1994	13.1994	1.2000e-004	0.0000	13.2021

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					0.0237	0.0000	0.0237	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.0000e-003	0.0608	0.0806	1.2000e-004		3.0700e-003	3.0700e-003		3.0700e-003	3.0700e-003	0.0000	11.6443	11.6443	3.5100e-003	0.0000	11.7181
Total	3.0000e-003	0.0608	0.0806	1.2000e-004	0.0237	3.0700e-003	0.0268	0.0129	3.0700e-003	0.0160	0.0000	11.6443	11.6443	3.5100e-003	0.0000	11.7181

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	3.3500e-003	0.0544	0.0409	1.4000e-004	4.8100e-003	8.0000e-004	5.6100e-003	1.2700e-003	7.4000e-004	2.0100e-003	0.0000	12.5827	12.5827	9.0000e-005	0.0000	12.5846
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.4000e-004	3.5000e-004	3.6700e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	1.0000e-005	1.8000e-004	0.0000	0.6167	0.6167	3.0000e-005	0.0000	0.6174
Total	3.5900e-003	0.0548	0.0446	1.5000e-004	5.4700e-003	8.1000e-004	6.2700e-003	1.4400e-003	7.5000e-004	2.1900e-003	0.0000	13.1994	13.1994	1.2000e-004	0.0000	13.2021

3.4 Grading - 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					
Fugitive Dust					0.0608	0.0000	0.0608	0.0332	0.0000	0.0332	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.1126	0.0759	8.0000e-005		6.2200e-003	6.2200e-003		5.7200e-003	5.7200e-003	0.0000	7.6370	7.6370	2.3400e-003	0.0000	7.6861
Total	0.0108	0.1126	0.0759	8.0000e-005	0.0608	6.2200e-003	0.0670	0.0332	5.7200e-003	0.0389	0.0000	7.6370	7.6370	2.3400e-003	0.0000	7.6861

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-003	0.0333	0.0263	9.0000e-005	4.5500e-003	4.9000e-004	5.0400e-003	1.1800e-003	4.5000e-004	1.6300e-003	0.0000	8.2510	8.2510	6.0000e-005	0.0000	8.2523
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	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958
Total	2.2400e-003	0.0335	0.0285	1.0000e-004	4.9900e-003	4.9000e-004	5.4800e-003	1.3000e-003	4.5000e-004	1.7500e-003	0.0000	8.6464	8.6464	8.0000e-005	0.0000	8.6481

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					0.0237	0.0000	0.0237	0.0129	0.0000	0.0129	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.0000e-003	0.0405	0.0537	8.0000e-005		2.0500e-003	2.0500e-003		2.0500e-003	2.0500e-003	0.0000	7.6369	7.6369	2.3400e-003	0.0000	7.6861
Total	2.0000e-003	0.0405	0.0537	8.0000e-005	0.0237	2.0500e-003	0.0257	0.0129	2.0500e-003	0.0150	0.0000	7.6369	7.6369	2.3400e-003	0.0000	7.6861

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	2.1000e-003	0.0333	0.0263	9.0000e-005	4.5500e-003	4.9000e-004	5.0400e-003	1.1800e-003	4.5000e-004	1.6300e-003	0.0000	8.2510	8.2510	6.0000e-005	0.0000	8.2523
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	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958
Total	2.2400e-003	0.0335	0.0285	1.0000e-004	4.9900e-003	4.9000e-004	5.4800e-003	1.3000e-003	4.5000e-004	1.7500e-003	0.0000	8.6464	8.6464	8.0000e-005	0.0000	8.6481

3.5 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	0.3494	2.4001	1.7062	2.6100e-003		0.1535	0.1535		0.1470	0.1470	0.0000	222.4048	222.4048	0.0494	0.0000	223.4428
Total	0.3494	2.4001	1.7062	2.6100e-003		0.1535	0.1535		0.1470	0.1470	0.0000	222.4048	222.4048	0.0494	0.0000	223.4428

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.0607	0.0812	1.6000e-004	4.5200e-003	9.3000e-004	5.4500e-003	1.2900e-003	8.5000e-004	2.1500e-003	0.0000	14.2631	14.2631	1.0000e-004	0.0000	14.2652
Worker	0.0113	0.0168	0.1741	4.2000e-004	0.0346	2.8000e-004	0.0348	9.1800e-003	2.6000e-004	9.4400e-003	0.0000	31.1358	31.1358	1.6100e-003	0.0000	31.1695
Total	0.0173	0.0775	0.2553	5.8000e-004	0.0391	1.2100e-003	0.0403	0.0105	1.1100e-003	0.0116	0.0000	45.3989	45.3989	1.7100e-003	0.0000	45.4348

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	0.0746	1.4241	1.6109	2.6100e-003		0.0856	0.0856		0.0856	0.0856	0.0000	222.4045	222.4045	0.0494	0.0000	223.4425
Total	0.0746	1.4241	1.6109	2.6100e-003		0.0856	0.0856		0.0856	0.0856	0.0000	222.4045	222.4045	0.0494	0.0000	223.4425

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	5.9800e-003	0.0607	0.0812	1.6000e-004	4.5200e-003	9.3000e-004	5.4500e-003	1.2900e-003	8.5000e-004	2.1500e-003	0.0000	14.2631	14.2631	1.0000e-004	0.0000	14.2652
Worker	0.0113	0.0168	0.1741	4.2000e-004	0.0346	2.8000e-004	0.0348	9.1800e-003	2.6000e-004	9.4400e-003	0.0000	31.1358	31.1358	1.6100e-003	0.0000	31.1695
Total	0.0173	0.0775	0.2553	5.8000e-004	0.0391	1.2100e-003	0.0403	0.0105	1.1100e-003	0.0116	0.0000	45.3989	45.3989	1.7100e-003	0.0000	45.4348

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3100e-003	0.0546	0.0467	7.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	6.3831	6.3831	6.7000e-004	0.0000	6.3973
Total	0.3101	0.0546	0.0467	7.0000e-005		4.3300e-003	4.3300e-003		4.3300e-003	4.3300e-003	0.0000	6.3831	6.3831	6.7000e-004	0.0000	6.3973

3.6 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843
Total	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843

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	0.3017					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.4900e-003	0.0339	0.0458	7.0000e-005		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	6.3831	6.3831	6.7000e-004	0.0000	6.3973
Total	0.3032	0.0339	0.0458	7.0000e-005		2.3800e-003	2.3800e-003		2.3800e-003	2.3800e-003	0.0000	6.3831	6.3831	6.7000e-004	0.0000	6.3973

3.6 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843
Total	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.1207					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9900e-003	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	0.1237	0.0201	0.0185	3.0000e-005		1.5100e-003	1.5100e-003		1.5100e-003	1.5100e-003	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584

3.6 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr										MT/yr						
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.9000e-004	3.0000e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5709	0.5709	3.0000e-005	0.0000	0.5715	
Total	1.9000e-004	2.9000e-004	3.0000e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5709	0.5709	3.0000e-005	0.0000	0.5715	

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	0.1207					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.9000e-004	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584
Total	0.1213	0.0136	0.0183	3.0000e-005		9.5000e-004	9.5000e-004		9.5000e-004	9.5000e-004	0.0000	2.5533	2.5533	2.4000e-004	0.0000	2.5584

3.6 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.9000e-004	2.9000e-004	3.0000e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5709	0.5709	3.0000e-005	0.0000	0.5715
Total	1.9000e-004	2.9000e-004	3.0000e-003	1.0000e-005	6.6000e-004	1.0000e-005	6.6000e-004	1.7000e-004	0.0000	1.8000e-004	0.0000	0.5709	0.5709	3.0000e-005	0.0000	0.5715

3.7 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0164	0.1646	0.1206	1.8000e-004		0.0102	0.0102		9.4200e-003	9.4200e-003	0.0000	16.1250	16.1250	4.8500e-003	0.0000	16.2268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0164	0.1646	0.1206	1.8000e-004		0.0102	0.0102		9.4200e-003	9.4200e-003	0.0000	16.1250	16.1250	4.8500e-003	0.0000	16.2268

3.7 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843
Total	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	4.1500e-003	0.0874	0.1279	1.8000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	16.1250	16.1250	4.8500e-003	0.0000	16.2268
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	4.1500e-003	0.0874	0.1279	1.8000e-004		5.2400e-003	5.2400e-003		5.2400e-003	5.2400e-003	0.0000	16.1250	16.1250	4.8500e-003	0.0000	16.2268

3.7 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843
Total	5.4000e-004	8.0000e-004	8.2900e-003	2.0000e-005	1.6500e-003	1.0000e-005	1.6600e-003	4.4000e-004	1.0000e-005	4.5000e-004	0.0000	1.4827	1.4827	8.0000e-005	0.0000	1.4843

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1015	0.3222	1.2017	3.5000e-003	0.2392	4.8400e-003	0.2441	0.0640	4.4700e-003	0.0685	0.0000	254.2413	254.2413	9.2500e-003	0.0000	254.4356
Unmitigated	0.1015	0.3222	1.2017	3.5000e-003	0.2392	4.8400e-003	0.2441	0.0640	4.4700e-003	0.0685	0.0000	254.2413	254.2413	9.2500e-003	0.0000	254.4356

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	184.52	200.48	169.96	631,216	631,216
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	184.52	200.48	169.96	631,216	631,216

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511108	0.059746	0.180859	0.139188	0.042462	0.006666	0.016153	0.032295	0.001940	0.002496	0.004377	0.000582	0.002128

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	142.5314	142.5314	3.7100e-003	7.7000e-004	142.8469
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	142.5314	142.5314	3.7100e-003	7.7000e-004	142.8469
NaturalGas Mitigated	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442
NaturalGas Unmitigated	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	373342	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442
Total		2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	373342	2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total		2.0100e-003	0.0172	7.3200e-003	1.1000e-004		1.3900e-003	1.3900e-003		1.3900e-003	1.3900e-003	0.0000	19.9230	19.9230	3.8000e-004	3.7000e-004	20.0442

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	123116	62.2852	1.6200e-003	3.4000e-004	62.4230
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
Total		142.5314	3.7100e-003	7.7000e-004	142.8469

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	123116	62.2852	1.6200e-003	3.4000e-004	62.4230
Enclosed Parking with Elevator	158619	80.2463	2.0900e-003	4.3000e-004	80.4239
Total		142.5314	3.7100e-003	7.7000e-004	142.8469

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321
Unmitigated	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9900e-003	1.9900e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321

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	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.8000e-004	0.0000	3.0000e-005	0.0000		4.0000e-004	4.0000e-004		3.9000e-004	3.9000e-004	0.0000	5.7153	5.7153	1.1000e-004	1.0000e-004	5.7501
Landscaping	8.9100e-003	3.3600e-003	0.2905	2.0000e-005		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	0.4723	0.4723	4.6000e-004	0.0000	0.4820
Total	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9800e-003	1.9800e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0422					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2234					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	5.8000e-004	0.0000	3.0000e-005	0.0000		4.0000e-004	4.0000e-004		3.9000e-004	3.9000e-004	0.0000	5.7153	5.7153	1.1000e-004	1.0000e-004	5.7501
Landscaping	8.9100e-003	3.3600e-003	0.2905	2.0000e-005		1.5900e-003	1.5900e-003		1.5900e-003	1.5900e-003	0.0000	0.4723	0.4723	4.6000e-004	0.0000	0.4820
Total	0.2751	3.3600e-003	0.2905	2.0000e-005		1.9900e-003	1.9900e-003		1.9800e-003	1.9800e-003	0.0000	6.1875	6.1875	5.7000e-004	1.0000e-004	6.2321

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	16.1470	0.0480	1.2100e-003	17.5277
Unmitigated	19.0606	0.0599	1.5000e-003	20.7849

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.82431 / 1.15011	19.0606	0.0599	1.5000e-003	20.7849
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		19.0606	0.0599	1.5000e-003	20.7849

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	1.45945 / 1.07995	16.1470	0.0480	1.2100e-003	17.5277
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		16.1470	0.0480	1.2100e-003	17.5277

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.3073	0.0773	0.0000	2.9297
Unmitigated	2.6145	0.1545	0.0000	5.8593

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	12.88	2.6145	0.1545	0.0000	5.8593
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		2.6145	0.1545	0.0000	5.8593

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	6.44	1.3073	0.0773	0.0000	2.9297
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		1.3073	0.0773	0.0000	2.9297

9.0 Operational Offroad

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

Honolulu Village Project South Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.54	23,534.00	0
Condo/Townhouse	28.00	Dwelling Unit	1.75	38,287.00	80

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2019
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 28 multifamily residential units across a 43,609 square foot site, or approximately 1 acre.

Construction Phase - Construction would take approximately 14 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - 43,609 square feet, or approximately 1-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
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tblConstructionPhase	NumDays	220.00	210.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	2/7/2018	1/26/2018
tblConstructionPhase	PhaseEndDate	2/23/2018	11/29/2017
tblConstructionPhase	PhaseStartDate	11/2/2017	10/23/2017
tblConstructionPhase	PhaseStartDate	1/27/2018	11/2/2017
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	10.00	1.00
tblGrading	AcresOfGrading	15.00	1.00

tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LandUseSquareFeet	28,000.00	38,287.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	49.00	1,058.00
tblTripsAndVMT	HaulingTripNumber	0.00	622.00
tblWoodstoves	NumberCatalytic	1.40	0.00
tblWoodstoves	NumberNoncatalytic	1.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2016	3.7895	41.6356	31.6987	0.0618	7.0028	1.9516	8.8040	3.5612	1.8233	5.2183	0.0000	6,219.9618	6,219.9618	0.7530	0.0000	6,235.7741
2017	15.9177	36.1067	25.3595	0.0449	7.3455	1.6778	9.0233	3.6454	1.5842	5.1889	0.0000	4,495.0546	4,495.0546	0.6667	0.0000	4,509.0557
2018	12.3884	2.0313	2.1742	3.8200e-003	0.0671	0.1511	0.2182	0.0178	0.1510	0.1688	0.0000	347.5378	347.5378	0.0299	0.0000	348.1652
Total	32.0956	79.7737	59.2324	0.1105	14.4154	3.7805	18.0454	7.2244	3.5585	10.5761	0.0000	11,062.5542	11,062.5542	1.4496	0.0000	11,092.9950

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					
2016	1.4519	25.6120	25.7629	0.0618	3.2970	0.9303	3.9430	1.5385	0.9137	2.1738	0.0000	6,219.9618	6,219.9618	0.7530	0.0000	6,235.7741
2017	13.0281	18.0739	19.9440	0.0449	3.6397	0.9227	4.2744	1.6226	0.9217	2.2475	0.0000	4,495.0546	4,495.0546	0.6667	0.0000	4,509.0557
2018	12.1492	1.3826	2.1524	3.8200e-003	0.0671	0.0956	0.1627	0.0178	0.0956	0.1134	0.0000	347.5378	347.5378	0.0299	0.0000	348.1652
Total	26.6291	45.0684	47.8593	0.1105	7.0037	1.9485	8.3800	3.1789	1.9309	4.5346	0.0000	11,062.5542	11,062.5542	1.4496	0.0000	11,092.9950

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.03	43.50	19.20	0.00	51.41	48.46	53.56	56.00	45.74	57.12	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Energy	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Mobile	0.6180	1.7934	7.2220	0.0217	1.4530	0.0289	1.4819	0.3883	0.0266	0.4149		1,736.2650	1,736.2650	0.0609		1,737.5431
Total	2.2021	1.9146	9.5886	0.0224	1.4530	0.0812	1.5342	0.3883	0.0786	0.4668	0.0000	2,364.7655	2,364.7655	0.0769	0.0115	2,369.9293

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	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Energy	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Mobile	0.6180	1.7934	7.2220	0.0217	1.4530	0.0289	1.4819	0.3883	0.0266	0.4149		1,736.2650	1,736.2650	0.0609		1,737.5431
Total	2.2021	1.9146	9.5886	0.0224	1.4530	0.0812	1.5342	0.3883	0.0786	0.4668	0.0000	2,364.7655	2,364.7655	0.0769	0.0115	2,369.9293

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2016	11/30/2016	5	22	
2	Site Preparation	Site Preparation	12/1/2016	12/14/2016	5	10	
3	Grading	Grading	12/15/2016	1/11/2017	5	20	
4	Building Construction	Building Construction	1/12/2017	11/1/2017	5	210	
5	Architectural Coating	Architectural Coating	10/23/2017	1/26/2018	5	70	
6	Paving	Paving	11/2/2017	11/29/2017	5	20	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 77,531; Residential Outdoor: 25,844; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Scrapers	1	8.00	361	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	1,058.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	622.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					0.4788	0.0000	0.4788	0.0725	0.0000	0.0725			0.0000			0.0000
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.129 6	2,487.129 6	0.6288		2,500.334 3
Total	2.9066	28.2579	21.4980	0.0245	0.4788	1.7445	2.2233	0.0725	1.6328	1.7052		2,487.129 6	2,487.129 6	0.6288		2,500.334 3

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8289	13.3100	9.3575	0.0355	0.8378	0.2059	1.0436	0.2294	0.1894	0.4188		3,578.1865	3,578.1865	0.0257		3,578.7251
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	0.0541	0.0677	0.8432	1.8400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		154.6457	154.6457	7.9300e-003		154.8122
Total	0.8830	13.3777	10.2007	0.0373	0.9831	0.2071	1.1902	0.2679	0.1905	0.4584		3,732.8322	3,732.8322	0.0336		3,733.5374

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					0.1867	0.0000	0.1867	0.0283	0.0000	0.0283			0.0000			0.0000
Off-Road	0.5689	12.2343	15.5622	0.0245		0.7231	0.7231		0.7231	0.7231	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343
Total	0.5689	12.2343	15.5622	0.0245	0.1867	0.7231	0.9099	0.0283	0.7231	0.7514	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8289	13.3100	9.3575	0.0355	0.8378	0.2059	1.0436	0.2294	0.1894	0.4188		3,578.1865	3,578.1865	0.0257		3,578.7251
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	0.0541	0.0677	0.8432	1.8400e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		154.6457	154.6457	7.9300e-003		154.8122
Total	0.8830	13.3777	10.2007	0.0373	0.9831	0.2071	1.1902	0.2679	0.1905	0.4584		3,732.8322	3,732.8322	0.0336		3,733.5374

3.3 Site Preparation - 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					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.1061	1.5116	1.6177	0.0115	1.3907	1.4022		2,480.1000	2,480.1000	0.7481		2,495.8099

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003		95.2691
Total	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003		95.2691

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					0.0414	0.0000	0.0414	4.4700e-003	0.0000	4.4700e-003			0.0000			0.0000
Off-Road	0.5842	11.5269	14.6507	0.0239		0.5162	0.5162		0.5162	0.5162	0.0000	2,480.1000	2,480.1000	0.7481		2,495.8099
Total	0.5842	11.5269	14.6507	0.0239	0.0414	0.5162	0.5576	4.4700e-003	0.5162	0.5207	0.0000	2,480.1000	2,480.1000	0.7481		2,495.8099

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003			95.2691
Total	0.0333	0.0417	0.5189	1.1300e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		95.1666	95.1666	4.8800e-003			95.2691

3.4 Grading - 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					
Fugitive Dust					6.0751	0.0000	6.0751	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	6.0751	1.6671	7.7422	3.3160	1.5337	4.8497		2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5360	8.6075	6.0514	0.0230	0.8159	0.1332	0.9490	0.2156	0.1225	0.3381		2,313.984 1	2,313.984 1	0.0166		2,314.332 5
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	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	0.5776	8.6595	6.7000	0.0244	0.9277	0.1341	1.0617	0.2453	0.1233	0.3686		2,432.942 4	2,432.942 4	0.0227		2,433.418 8

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					2.3693	0.0000	2.3693	1.2932	0.0000	1.2932			0.0000			0.0000
Off-Road	0.4998	10.1279	13.4314	0.0206		0.5119	0.5119		0.5119	0.5119	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	0.4998	10.1279	13.4314	0.0206	2.3693	0.5119	2.8812	1.2932	0.5119	1.8051	0.0000	2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5360	8.6075	6.0514	0.0230	0.8159	0.1332	0.9490	0.2156	0.1225	0.3381		2,313.984 1	2,313.984 1	0.0166		2,314.332 5
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	0.0416	0.0521	0.6486	1.4200e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		118.9583	118.9583	6.1000e-003		119.0863
Total	0.5776	8.6595	6.7000	0.0244	0.9277	0.1341	1.0617	0.2453	0.1233	0.3686		2,432.942 4	2,432.942 4	0.0227		2,433.418 8

3.4 Grading - 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					
Fugitive Dust					6.0751	0.0000	6.0751	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306		2,104.573 7	2,104.573 7	0.6448		2,118.115 3
Total	2.6973	28.1608	18.9679	0.0206	6.0751	1.5550	7.6301	3.3160	1.4306	4.7466		2,104.573 7	2,104.573 7	0.6448		2,118.115 3

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5068	7.8990	5.8046	0.0229	1.1586	0.1219	1.2805	0.2998	0.1121	0.4119		2,276.075 1	2,276.075 1	0.0163		2,276.416 4
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	0.0374	0.0470	0.5870	1.4200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.4058	114.4058	5.6300e-003		114.5239
Total	0.5443	7.9460	6.3916	0.0244	1.2704	0.1228	1.3932	0.3294	0.1129	0.4423		2,390.480 8	2,390.480 8	0.0219		2,390.940 4

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					2.3693	0.0000	2.3693	1.2932	0.0000	1.2932			0.0000			0.0000
Off-Road	0.4998	10.1279	13.4314	0.0206		0.5119	0.5119		0.5119	0.5119	0.0000	2,104.573 7	2,104.573 7	0.6448		2,118.115 3
Total	0.4998	10.1279	13.4314	0.0206	2.3693	0.5119	2.8812	1.2932	0.5119	1.8051	0.0000	2,104.573 7	2,104.573 7	0.6448		2,118.115 3

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5068	7.8990	5.8046	0.0229	1.1586	0.1219	1.2805	0.2998	0.1121	0.4119		2,276.075 1	2,276.075 1	0.0163		2,276.416 4
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	0.0374	0.0470	0.5870	1.4200e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		114.4058	114.4058	5.6300e-003		114.5239
Total	0.5443	7.9460	6.3916	0.0244	1.2704	0.1228	1.3932	0.3294	0.1129	0.4423		2,390.480 8	2,390.480 8	0.0219		2,390.940 4

3.5 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	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998		2,334.850 3	2,334.850 3	0.5189		2,345.747 9
Total	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998		2,334.850 3	2,334.850 3	0.5189		2,345.747 9

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0536	0.5535	0.6567	1.5200e-003	0.0438	8.8100e-003	0.0526	0.0125	8.1000e-003	0.0206		150.2670	150.2670	1.0600e-003			150.2893
Worker	0.1123	0.1411	1.7611	4.2500e-003	0.3353	2.7000e-003	0.3380	0.0889	2.4900e-003	0.0914		343.2173	343.2173	0.0169			343.5718
Total	0.1659	0.6946	2.4178	5.7700e-003	0.3791	0.0115	0.3906	0.1014	0.0106	0.1120		493.4843	493.4843	0.0179			493.8611

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	0.7108	13.5628	15.3416	0.0249		0.8155	0.8155		0.8155	0.8155	0.0000	2,334.8503	2,334.8503	0.5189			2,345.7479
Total	0.7108	13.5628	15.3416	0.0249		0.8155	0.8155		0.8155	0.8155	0.0000	2,334.8503	2,334.8503	0.5189			2,345.7479

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0536	0.5535	0.6567	1.5200e-003	0.0438	8.8100e-003	0.0526	0.0125	8.1000e-003	0.0206		150.2670	150.2670	1.0600e-003			150.2893
Worker	0.1123	0.1411	1.7611	4.2500e-003	0.3353	2.7000e-003	0.3380	0.0889	2.4900e-003	0.0914		343.2173	343.2173	0.0169			343.5718
Total	0.1659	0.6946	2.4178	5.7700e-003	0.3791	0.0115	0.3906	0.1014	0.0106	0.1120		493.4843	493.4843	0.0179			493.8611

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721
Total	12.4018	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297			282.0721

3.6 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0225	0.0282	0.3522	8.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.6435	68.6435	3.3800e-003			68.7144
Total	0.0225	0.0282	0.3522	8.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.6435	68.6435	3.3800e-003			68.7144

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	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721
Total	12.1289	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297			282.0721

3.6 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0225	0.0282	0.3522	8.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.6435	68.6435	3.3800e-003			68.7144
Total	0.0225	0.0282	0.3522	8.5000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		68.6435	68.6435	3.3800e-003			68.7144

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	12.3681	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.6 Architectural Coating - 2018

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	0.0202	0.0256	0.3200	8.5000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		66.0893	66.0893	3.1300e-003			66.1551
Total	0.0202	0.0256	0.3200	8.5000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		66.0893	66.0893	3.1300e-003			66.1551

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	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267			282.0102
Total	12.1289	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267			282.0102

3.6 Architectural Coating - 2018

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	0.0202	0.0256	0.3200	8.5000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		66.0893	66.0893	3.1300e-003			66.1551
Total	0.0202	0.0256	0.3200	8.5000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		66.0893	66.0893	3.1300e-003			66.1551

3.7 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423		1,777.4745	1,777.4745	0.5344			1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423		1,777.4745	1,777.4745	0.5344			1,788.6966

3.7 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003			171.7859
Total	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003			171.7859

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	0.4148	8.7357	12.7897	0.0176		0.5236	0.5236		0.5236	0.5236	0.0000	1,777.4745	1,777.4745	0.5344			1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.4148	8.7357	12.7897	0.0176		0.5236	0.5236		0.5236	0.5236	0.0000	1,777.4745	1,777.4745	0.5344			1,788.6966

3.7 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003		171.7859
Total	0.0561	0.0705	0.8806	2.1200e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		171.6086	171.6086	8.4400e-003		171.7859

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	0.6180	1.7934	7.2220	0.0217	1.4530	0.0289	1.4819	0.3883	0.0266	0.4149		1,736.2650	1,736.2650	0.0609		1,737.5431
Unmitigated	0.6180	1.7934	7.2220	0.0217	1.4530	0.0289	1.4819	0.3883	0.0266	0.4149		1,736.2650	1,736.2650	0.0609		1,737.5431

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	184.52	200.48	169.96	631,216	631,216
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	184.52	200.48	169.96	631,216	631,216

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511108	0.059746	0.180859	0.139188	0.042462	0.006666	0.016153	0.032295	0.001940	0.002496	0.004377	0.000582	0.002128

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
NaturalGas Unmitigated	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1022.86	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Total		0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.02286	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Unmitigated	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

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	0.2315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0462	0.0000	2.5200e-003	0.0000		0.0319	0.0319		0.0316	0.0316	0.0000	504.0000	504.0000	9.6600e-003	9.2400e-003	507.0673
Landscaping	0.0713	0.0269	2.3239	1.2000e-004		0.0127	0.0127		0.0127	0.0127		4.1646	4.1646	4.1000e-003		4.2507
Total	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0462	0.0000	2.5200e-003	0.0000		0.0319	0.0319		0.0316	0.0316	0.0000	504.0000	504.0000	9.6600e-003	9.2400e-003	507.0673
Landscaping	0.0713	0.0269	2.3239	1.2000e-004		0.0127	0.0127		0.0127	0.0127		4.1646	4.1646	4.1000e-003		4.2507
Total	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

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

Institute Recycling and Composting Services

9.0 Operational Offroad

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

Honolulu Village Project South Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	23.54	1000sqft	0.54	23,534.00	0
Condo/Townhouse	28.00	Dwelling Unit	1.75	38,287.00	80

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	12			Operational Year	2019
Utility Company	Glendale Water & Power				
CO2 Intensity (lb/MWhr)	1115.33	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - The project would develop 28 multifamily residential units across a 43,609 square foot site, or approximately 1 acre.

Construction Phase - Construction would take approximately 14 months and would involve demolition, site preparation/grading, and building construction.

Demolition -

Grading - 43,609 square feet, or approximately 1-acre, would be disturbed

Woodstoves - No woodstoves

Construction Off-road Equipment Mitigation - Fugitive dust control measures pursuant with SCAQMD Rule 403

Mobile Land Use Mitigation -

Area Mitigation - VOC control measures pursuant to SCAQMD Rule 1113

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	220.00	210.00
tblConstructionPhase	NumDays	20.00	22.00
tblConstructionPhase	NumDays	6.00	20.00
tblConstructionPhase	NumDays	10.00	20.00
tblConstructionPhase	NumDays	3.00	10.00
tblConstructionPhase	PhaseEndDate	2/7/2018	1/26/2018
tblConstructionPhase	PhaseEndDate	2/23/2018	11/29/2017
tblConstructionPhase	PhaseStartDate	11/2/2017	10/23/2017
tblConstructionPhase	PhaseStartDate	1/27/2018	11/2/2017
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.40	0.00
tblGrading	AcresOfGrading	10.00	1.00
tblGrading	AcresOfGrading	15.00	1.00

tblLandUse	LandUseSquareFeet	23,540.00	23,534.00
tblLandUse	LandUseSquareFeet	28,000.00	38,287.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblTripsAndVMT	HaulingTripNumber	49.00	1,058.00
tblTripsAndVMT	HaulingTripNumber	0.00	622.00
tblWoodstoves	NumberCatalytic	1.40	0.00
tblWoodstoves	NumberNoncatalytic	1.40	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

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					
2016	3.8372	42.1242	32.9967	0.0616	7.0028	1.9521	8.8043	3.5612	1.8237	5.2186	0.0000	6,201.8587	6,201.8587	0.7530	0.0000	6,217.6710
2017	15.9253	36.3968	26.2003	0.0448	7.3455	1.6781	9.0236	3.6454	1.5843	5.1892	0.0000	4,482.5236	4,482.5236	0.6669	0.0000	4,496.5294
2018	12.3887	2.0339	2.1470	3.7700e-003	0.0671	0.1511	0.2182	0.0178	0.1510	0.1688	0.0000	343.4157	343.4157	0.0299	0.0000	344.0431
Total	32.1513	80.5549	61.3440	0.1102	14.4154	3.7813	18.0460	7.2244	3.5591	10.5766	0.0000	11,027.7980	11,027.7980	1.4498	0.0000	11,058.2435

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					
2016	1.4996	26.1006	27.0609	0.0616	3.2970	0.9307	3.9433	1.5385	0.9141	2.1740	0.0000	6,201.8587	6,201.8587	0.7530	0.0000	6,217.6710
2017	13.0357	18.3639	20.6638	0.0448	3.6397	0.9227	4.2747	1.6226	0.9218	2.2477	0.0000	4,482.5236	4,482.5236	0.6669	0.0000	4,496.5294
2018	12.1495	1.3851	2.1252	3.7700e-003	0.0671	0.0956	0.1627	0.0178	0.0956	0.1134	0.0000	343.4157	343.4157	0.0299	0.0000	344.0431
Total	26.6848	45.8496	49.8499	0.1102	7.0037	1.9491	8.3806	3.1789	1.9314	4.5351	0.0000	11,027.7980	11,027.7980	1.4498	0.0000	11,058.2435

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	17.00	43.08	18.74	0.00	51.41	48.45	53.56	56.00	45.73	57.12	0.00	0.00	0.00	0.00	0.00	0.00

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Energy	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Mobile	0.6357	1.8844	7.0944	0.0206	1.4530	0.0290	1.4820	0.3883	0.0267	0.4150		1,653.2280	1,653.2280	0.0609		1,654.5074
Total	2.2197	2.0055	9.4609	0.0213	1.4530	0.0813	1.5343	0.3883	0.0787	0.4669	0.0000	2,281.7285	2,281.7285	0.0770	0.0115	2,286.8935

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	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Energy	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Mobile	0.6357	1.8844	7.0944	0.0206	1.4530	0.0290	1.4820	0.3883	0.0267	0.4150		1,653.2280	1,653.2280	0.0609		1,654.5074
Total	2.2197	2.0055	9.4609	0.0213	1.4530	0.0813	1.5343	0.3883	0.0787	0.4669	0.0000	2,281.7285	2,281.7285	0.0770	0.0115	2,286.8935

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	11/1/2016	11/30/2016	5	22	
2	Site Preparation	Site Preparation	12/1/2016	12/14/2016	5	10	
3	Grading	Grading	12/15/2016	1/11/2017	5	20	
4	Building Construction	Building Construction	1/12/2017	11/1/2017	5	210	
5	Architectural Coating	Architectural Coating	10/23/2017	1/26/2018	5	70	
6	Paving	Paving	11/2/2017	11/29/2017	5	20	

Acres of Grading (Site Preparation Phase): 1

Acres of Grading (Grading Phase): 1

Acres of Paving: 0

Residential Indoor: 77,531; Residential Outdoor: 25,844; Non-Residential Indoor: 35,301; Non-Residential Outdoor: 11,767 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	174	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	174	0.41
Grading	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Building Construction	Cranes	1	8.00	226	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	1	8.00	130	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Scrapers	1	8.00	361	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	1,058.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	622.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	7.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Demolition - 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					
Fugitive Dust					0.4788	0.0000	0.4788	0.0725	0.0000	0.0725			0.0000			0.0000
Off-Road	2.9066	28.2579	21.4980	0.0245		1.7445	1.7445		1.6328	1.6328		2,487.129 6	2,487.129 6	0.6288		2,500.334 3
Total	2.9066	28.2579	21.4980	0.0245	0.4788	1.7445	2.2233	0.0725	1.6328	1.7052		2,487.129 6	2,487.129 6	0.6288		2,500.334 3

3.2 Demolition - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8753	13.7920	10.7213	0.0354	0.8378	0.2064	1.0441	0.2294	0.1898	0.4192		3,569.6888	3,569.6888	0.0260		3,570.2345
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	0.0553	0.0744	0.7774	1.7300e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		145.0404	145.0404	7.9300e-003		145.2069
Total	0.9307	13.8663	11.4987	0.0372	0.9831	0.2076	1.1907	0.2679	0.1910	0.4589		3,714.7292	3,714.7292	0.0339		3,715.4414

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					0.1867	0.0000	0.1867	0.0283	0.0000	0.0283			0.0000			0.0000
Off-Road	0.5689	12.2343	15.5622	0.0245		0.7231	0.7231		0.7231	0.7231	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343
Total	0.5689	12.2343	15.5622	0.0245	0.1867	0.7231	0.9099	0.0283	0.7231	0.7514	0.0000	2,487.1296	2,487.1296	0.6288		2,500.3343

3.2 Demolition - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.8753	13.7920	10.7213	0.0354	0.8378	0.2064	1.0441	0.2294	0.1898	0.4192		3,569.6888	3,569.6888	0.0260		3,570.2345
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	0.0553	0.0744	0.7774	1.7300e-003	0.1453	1.2100e-003	0.1465	0.0385	1.1200e-003	0.0397		145.0404	145.0404	7.9300e-003		145.2069
Total	0.9307	13.8663	11.4987	0.0372	0.9831	0.2076	1.1907	0.2679	0.1910	0.4589		3,714.7292	3,714.7292	0.0339		3,715.4414

3.3 Site Preparation - 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					
Fugitive Dust					0.1061	0.0000	0.1061	0.0115	0.0000	0.0115			0.0000			0.0000
Off-Road	2.6992	30.8238	18.0600	0.0239		1.5116	1.5116		1.3907	1.3907		2,480.1000	2,480.1000	0.7481		2,495.8099
Total	2.6992	30.8238	18.0600	0.0239	0.1061	1.5116	1.6177	0.0115	1.3907	1.4022		2,480.1000	2,480.1000	0.7481		2,495.8099

3.3 Site Preparation - 2016

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003			89.3581
Total	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003			89.3581

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					0.0414	0.0000	0.0414	4.4700e-003	0.0000	4.4700e-003			0.0000				0.0000
Off-Road	0.5842	11.5269	14.6507	0.0239		0.5162	0.5162		0.5162	0.5162	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099
Total	0.5842	11.5269	14.6507	0.0239	0.0414	0.5162	0.5576	4.4700e-003	0.5162	0.5207	0.0000	2,480.1000	2,480.1000	0.7481			2,495.8099

3.3 Site Preparation - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003			89.3581
Total	0.0341	0.0458	0.4784	1.0600e-003	0.0894	7.5000e-004	0.0902	0.0237	6.9000e-004	0.0244		89.2556	89.2556	4.8800e-003			89.3581

3.4 Grading - 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					
Fugitive Dust					6.0751	0.0000	6.0751	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	2.8530	29.9470	19.6345	0.0206		1.6671	1.6671		1.5337	1.5337		2,139.274 2	2,139.274 2	0.6453		2,152.825 1
Total	2.8530	29.9470	19.6345	0.0206	6.0751	1.6671	7.7422	3.3160	1.5337	4.8497		2,139.274 2	2,139.274 2	0.6453		2,152.825 1

3.4 Grading - 2016**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5661	8.9192	6.9334	0.0229	0.8159	0.1335	0.9494	0.2156	0.1228	0.3384		2,308.4887	2,308.4887	0.0168		2,308.8416
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	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	0.6086	8.9764	7.5314	0.0243	0.9277	0.1344	1.0621	0.2453	0.1236	0.3689		2,420.0582	2,420.0582	0.0229		2,420.5392

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					2.3693	0.0000	2.3693	1.2932	0.0000	1.2932			0.0000			0.0000
Off-Road	0.4998	10.1279	13.4314	0.0206		0.5119	0.5119		0.5119	0.5119	0.0000	2,139.2742	2,139.2742	0.6453		2,152.8251
Total	0.4998	10.1279	13.4314	0.0206	2.3693	0.5119	2.8812	1.2932	0.5119	1.8051	0.0000	2,139.2742	2,139.2742	0.6453		2,152.8251

3.4 Grading - 2016

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5661	8.9192	6.9334	0.0229	0.8159	0.1335	0.9494	0.2156	0.1228	0.3384		2,308.4887	2,308.4887	0.0168		2,308.8416
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	0.0426	0.0572	0.5980	1.3300e-003	0.1118	9.3000e-004	0.1127	0.0296	8.6000e-004	0.0305		111.5695	111.5695	6.1000e-003		111.6976
Total	0.6086	8.9764	7.5314	0.0243	0.9277	0.1344	1.0621	0.2453	0.1236	0.3689		2,420.0582	2,420.0582	0.0229		2,420.5392

3.4 Grading - 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					
Fugitive Dust					6.0751	0.0000	6.0751	3.3160	0.0000	3.3160			0.0000			0.0000
Off-Road	2.6973	28.1608	18.9679	0.0206		1.5550	1.5550		1.4306	1.4306		2,104.5737	2,104.5737	0.6448		2,118.1153
Total	2.6973	28.1608	18.9679	0.0206	6.0751	1.5550	7.6301	3.3160	1.4306	4.7466		2,104.5737	2,104.5737	0.6448		2,118.1153

3.4 Grading - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5332	8.1844	6.6932	0.0229	1.1586	0.1221	1.2808	0.2998	0.1124	0.4121		2,270.665 3	2,270.665 3	0.0165		2,271.011 4
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	0.0382	0.0516	0.5392	1.3300e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2846	107.2846	5.6300e-003		107.4028
Total	0.5713	8.2361	7.2324	0.0242	1.2704	0.1230	1.3934	0.3294	0.1132	0.4426		2,377.949 9	2,377.949 9	0.0221		2,378.414 1

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					2.3693	0.0000	2.3693	1.2932	0.0000	1.2932			0.0000			0.0000
Off-Road	0.4998	10.1279	13.4314	0.0206		0.5119	0.5119		0.5119	0.5119	0.0000	2,104.573 7	2,104.573 7	0.6448		2,118.115 3
Total	0.4998	10.1279	13.4314	0.0206	2.3693	0.5119	2.8812	1.2932	0.5119	1.8051	0.0000	2,104.573 7	2,104.573 7	0.6448		2,118.115 3

3.4 Grading - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.5332	8.1844	6.6932	0.0229	1.1586	0.1221	1.2808	0.2998	0.1124	0.4121		2,270.6653	2,270.6653	0.0165		2,271.0114
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	0.0382	0.0516	0.5392	1.3300e-003	0.1118	9.0000e-004	0.1127	0.0296	8.3000e-004	0.0305		107.2846	107.2846	5.6300e-003		107.4028
Total	0.5713	8.2361	7.2324	0.0242	1.2704	0.1230	1.3934	0.3294	0.1132	0.4426		2,377.9499	2,377.9499	0.0221		2,378.4141

3.5 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	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998		2,334.8503	2,334.8503	0.5189		2,345.7479
Total	3.3275	22.8585	16.2492	0.0249		1.4621	1.4621		1.3998	1.3998		2,334.8503	2,334.8503	0.5189		2,345.7479

3.5 Building Construction - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0585	0.5672	0.7956	1.5100e-003	0.0438	8.9000e-003	0.0527	0.0125	8.1800e-003	0.0207		149.0047	149.0047	1.0900e-003			149.0277
Worker	0.1145	0.1549	1.6177	3.9800e-003	0.3353	2.7000e-003	0.3380	0.0889	2.4900e-003	0.0914		321.8538	321.8538	0.0169			322.2083
Total	0.1731	0.7221	2.4133	5.4900e-003	0.3791	0.0116	0.3907	0.1014	0.0107	0.1121		470.8585	470.8585	0.0180			471.2360

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	0.7108	13.5628	15.3416	0.0249		0.8155	0.8155		0.8155	0.8155	0.0000	2,334.8503	2,334.8503	0.5189			2,345.7479
Total	0.7108	13.5628	15.3416	0.0249		0.8155	0.8155		0.8155	0.8155	0.0000	2,334.8503	2,334.8503	0.5189			2,345.7479

3.5 Building Construction - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0585	0.5672	0.7956	1.5100e-003	0.0438	8.9000e-003	0.0527	0.0125	8.1800e-003	0.0207		149.0047	149.0047	1.0900e-003		149.0277
Worker	0.1145	0.1549	1.6177	3.9800e-003	0.3353	2.7000e-003	0.3380	0.0889	2.4900e-003	0.0914		321.8538	321.8538	0.0169		322.2083
Total	0.1731	0.7221	2.4133	5.4900e-003	0.3791	0.0116	0.3907	0.1014	0.0107	0.1121		470.8585	470.8585	0.0180		471.2360

3.6 Architectural Coating - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.3323	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721
Total	12.4018	2.1850	1.8681	2.9700e-003		0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.0721

3.6 Architectural Coating - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0229	0.0310	0.3235	8.0000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3708	64.3708	3.3800e-003		64.4417
Total	0.0229	0.0310	0.3235	8.0000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3708	64.3708	3.3800e-003		64.4417

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	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721
Total	12.1289	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0297		282.0721

3.6 Architectural Coating - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0229	0.0310	0.3235	8.0000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3708	64.3708	3.3800e-003			64.4417
Total	0.0229	0.0310	0.3235	8.0000e-004	0.0671	5.4000e-004	0.0676	0.0178	5.0000e-004	0.0183		64.3708	64.3708	3.3800e-003			64.4417

3.6 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102
Total	12.3681	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

3.6 Architectural Coating - 2018

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	0.0206	0.0281	0.2928	8.0000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		61.9671	61.9671	3.1300e-003			62.0329
Total	0.0206	0.0281	0.2928	8.0000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		61.9671	61.9671	3.1300e-003			62.0329

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	12.0695					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267			282.0102
Total	12.1289	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4485	281.4485	0.0267			282.0102

3.6 Architectural Coating - 2018

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	0.0206	0.0281	0.2928	8.0000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		61.9671	61.9671	3.1300e-003			62.0329
Total	0.0206	0.0281	0.2928	8.0000e-004	0.0671	5.3000e-004	0.0676	0.0178	4.9000e-004	0.0183		61.9671	61.9671	3.1300e-003			62.0329

3.7 Paving - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423		1,777.4745	1,777.4745	0.5344			1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	1.6402	16.4619	12.0566	0.0176		1.0230	1.0230		0.9423	0.9423		1,777.4745	1,777.4745	0.5344			1,788.6966

3.7 Paving - 2017

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003			161.1042
Total	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003			161.1042

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	0.4148	8.7357	12.7897	0.0176		0.5236	0.5236		0.5236	0.5236	0.0000	1,777.4745	1,777.4745	0.5344			1,788.6966
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000				0.0000
Total	0.4148	8.7357	12.7897	0.0176		0.5236	0.5236		0.5236	0.5236	0.0000	1,777.4745	1,777.4745	0.5344			1,788.6966

3.7 Paving - 2017

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	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	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003			161.1042
Total	0.0573	0.0775	0.8088	1.9900e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2400e-003	0.0457		160.9269	160.9269	8.4400e-003			161.1042

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	0.6357	1.8844	7.0944	0.0206	1.4530	0.0290	1.4820	0.3883	0.0267	0.4150		1,653.2280	1,653.2280	0.0609		1,654.5074
Unmitigated	0.6357	1.8844	7.0944	0.0206	1.4530	0.0290	1.4820	0.3883	0.0267	0.4150		1,653.2280	1,653.2280	0.0609		1,654.5074

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	184.52	200.48	169.96	631,216	631,216
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	184.52	200.48	169.96	631,216	631,216

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Condo/Townhouse	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.511108	0.059746	0.180859	0.139188	0.042462	0.006666	0.016153	0.032295	0.001940	0.002496	0.004377	0.000582	0.002128

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
NaturalGas Unmitigated	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Condo/Townhouse	1022.86	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Total		0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	1.02286	0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0110	0.0943	0.0401	6.0000e-004		7.6200e-003	7.6200e-003		7.6200e-003	7.6200e-003		120.3359	120.3359	2.3100e-003	2.2100e-003	121.0683

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179
Unmitigated	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

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	0.2315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0462	0.0000	2.5200e-003	0.0000		0.0319	0.0319		0.0316	0.0316	0.0000	504.0000	504.0000	9.6600e-003	9.2400e-003	507.0673
Landscaping	0.0713	0.0269	2.3239	1.2000e-004		0.0127	0.0127		0.0127	0.0127		4.1646	4.1646	4.1000e-003		4.2507
Total	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.2315					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.2241					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0462	0.0000	2.5200e-003	0.0000		0.0319	0.0319		0.0316	0.0316	0.0000	504.0000	504.0000	9.6600e-003	9.2400e-003	507.0673
Landscaping	0.0713	0.0269	2.3239	1.2000e-004		0.0127	0.0127		0.0127	0.0127		4.1646	4.1646	4.1000e-003		4.2507
Total	1.5730	0.0269	2.3264	1.2000e-004		0.0447	0.0447		0.0443	0.0443	0.0000	508.1646	508.1646	0.0138	9.2400e-003	511.3179

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

- Institute Recycling and Composting Services

9.0 Operational Offroad

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