

Appendix B

AQ and GHG Modeling

Haverhill
Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	32.00	Dwelling Unit	3.61	57,600.00	92

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Developer information
- Construction Phase - Developer information and consultant assumptions
- Off-road Equipment -
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment -
- Grading - Developer information
- Trips and VMT - Developer information
- Woodstoves - Consultant assumption
- Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	18.00	65.00
tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	230.00	240.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	6/29/2018	3/31/2018
tblConstructionPhase	PhaseEndDate	8/1/2017	5/1/2017
tblConstructionPhase	PhaseEndDate	4/2/2018	3/31/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	5/30/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	4/1/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	6/1/2017	3/1/2017
tblConstructionPhase	PhaseStartDate	5/2/2017	5/1/2017
tblConstructionPhase	PhaseStartDate	4/1/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/31/2018	3/1/2018
tblFireplaces	NumberGas	27.20	32.00
tblFireplaces	NumberNoFireplace	3.20	0.00
tblFireplaces	NumberWood	1.60	0.00
tblGrading	AcresOfGrading	215.00	3.16
tblGrading	AcresOfGrading	11.00	0.00
tblGrading	MaterialExported	0.00	13,251.00

tblLandUse	LotAcreage	10.39	3.61
tblOffRoadEquipment	HorsePower	226.00	97.00
tblOffRoadEquipment	HorsePower	97.00	46.00
tblOffRoadEquipment	HorsePower	97.00	46.00
tblOffRoadEquipment	HorsePower	78.00	81.00
tblOffRoadEquipment	HorsePower	78.00	162.00
tblOffRoadEquipment	HorsePower	78.00	226.00
tblOffRoadEquipment	HorsePower	78.00	226.00
tblOffRoadEquipment	HorsePower	78.00	226.00
tblOffRoadEquipment	HorsePower	205.00	162.00
tblOffRoadEquipment	HorsePower	205.00	162.00
tblOffRoadEquipment	HorsePower	9.00	89.00
tblOffRoadEquipment	HorsePower	9.00	89.00
tblOffRoadEquipment	HorsePower	9.00	89.00
tblOffRoadEquipment	HorsePower	81.00	162.00
tblOffRoadEquipment	HorsePower	81.00	174.00
tblOffRoadEquipment	HorsePower	81.00	84.00
tblOffRoadEquipment	HorsePower	81.00	84.00
tblOffRoadEquipment	HorsePower	81.00	84.00
tblOffRoadEquipment	HorsePower	208.00	255.00
tblOffRoadEquipment	HorsePower	208.00	255.00
tblOffRoadEquipment	HorsePower	208.00	174.00
tblOffRoadEquipment	HorsePower	208.00	46.00
tblOffRoadEquipment	HorsePower	208.00	174.00
tblOffRoadEquipment	HorsePower	16.00	97.00
tblOffRoadEquipment	HorsePower	16.00	97.00
tblOffRoadEquipment	HorsePower	16.00	255.00
tblOffRoadEquipment	HorsePower	16.00	255.00
tblOffRoadEquipment	HorsePower	174.00	97.00
tblOffRoadEquipment	HorsePower	174.00	97.00
tblOffRoadEquipment	LoadFactor	0.29	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.45
tblOffRoadEquipment	LoadFactor	0.37	0.45
tblOffRoadEquipment	LoadFactor	0.48	0.73

tblOffRoadEquipment	LoadFactor	0.48	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.29
tblOffRoadEquipment	LoadFactor	0.48	0.29
tblOffRoadEquipment	LoadFactor	0.48	0.29
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.38
tblOffRoadEquipment	LoadFactor	0.56	0.20
tblOffRoadEquipment	LoadFactor	0.56	0.20
tblOffRoadEquipment	LoadFactor	0.56	0.20
tblOffRoadEquipment	LoadFactor	0.73	0.38
tblOffRoadEquipment	LoadFactor	0.73	0.41
tblOffRoadEquipment	LoadFactor	0.73	0.74
tblOffRoadEquipment	LoadFactor	0.73	0.74
tblOffRoadEquipment	LoadFactor	0.73	0.74
tblOffRoadEquipment	LoadFactor	0.43	0.40
tblOffRoadEquipment	LoadFactor	0.43	0.40
tblOffRoadEquipment	LoadFactor	0.43	0.41
tblOffRoadEquipment	LoadFactor	0.43	0.45
tblOffRoadEquipment	LoadFactor	0.43	0.41
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.37
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.41	0.37
tblOffRoadEquipment	LoadFactor	0.41	0.37
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00

tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	1,656.00	1,325.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	3.00	0.00
tblTripsAndVMT	VendorTripNumber	3.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	33.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	10.00
tblTripsAndVMT	WorkerTripNumber	12.00	70.00
tblTripsAndVMT	WorkerTripNumber	2.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	10.00
tblWoodstoves	NumberCatalytic	1.60	0.00
tblWoodstoves	NumberNoncatalytic	1.60	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					
2017	1.2165	10.5727	7.3037	0.0125	0.4289	0.5892	1.0181	0.2062	0.5545	0.7607	0.0000	1,094.3454	1,094.3454	0.2105	0.0000	1,098.7655
2018	0.6732	3.5625	2.7516	4.6900e-003	0.0417	0.2187	0.2604	0.0111	0.2061	0.2172	0.0000	402.8968	402.8968	0.0762	0.0000	404.4971
Total	1.8897	14.1353	10.0553	0.0172	0.4706	0.8079	1.2785	0.2174	0.7605	0.9779	0.0000	1,497.2422	1,497.2422	0.2867	0.0000	1,503.2626

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					
2017	0.4378	5.8613	7.1104	0.0125	0.1843	0.3186	0.5029	0.0841	0.3137	0.3978	0.0000	1,094.3443	1,094.3443	0.2105	0.0000	1,098.7643
2018	0.4059	2.2837	2.8107	4.6900e-003	0.0257	0.1356	0.1613	7.2100e-003	0.1332	0.1404	0.0000	402.8964	402.8964	0.0762	0.0000	404.4967
Total	0.8437	8.1450	9.9210	0.0172	0.2099	0.4542	0.6641	0.0913	0.4470	0.5383	0.0000	1,497.2407	1,497.2407	0.2867	0.0000	1,503.2611

	ROG	NOx	CO	SO2	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	55.35	42.38	1.33	0.00	55.39	43.78	48.05	58.00	41.23	44.96	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	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814
Energy	5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	179.7658	179.7658	4.0100e-003	1.6000e-003	180.3470
Mobile	0.1853	0.5939	2.2240	5.9400e-003	0.3950	8.6000e-003	0.4036	0.1058	7.9200e-003	0.1137	0.0000	447.1194	447.1194	0.0175	0.0000	447.4872
Waste						0.0000	0.0000		0.0000	0.0000	7.6568	0.0000	7.6568	0.4525	0.0000	17.1594
Water						0.0000	0.0000		0.0000	0.0000	0.6615	23.2537	23.9151	0.0685	1.7200e-003	25.8859
Total	0.4324	0.6443	2.5762	6.2600e-003	0.3950	0.0147	0.4097	0.1058	0.0140	0.1198	8.3183	658.3622	666.6805	0.5432	3.4600e-003	679.1610

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	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814
Energy	5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	179.7658	179.7658	4.0100e-003	1.6000e-003	180.3470
Mobile	0.1853	0.5939	2.2240	5.9400e-003	0.3950	8.6000e-003	0.4036	0.1058	7.9200e-003	0.1137	0.0000	447.1194	447.1194	0.0175	0.0000	447.4872
Waste						0.0000	0.0000		0.0000	0.0000	7.6568	0.0000	7.6568	0.4525	0.0000	17.1594
Water						0.0000	0.0000		0.0000	0.0000	0.6615	23.2537	23.9151	0.0685	1.7200e-003	25.8848
Total	0.4324	0.6443	2.5762	6.2600e-003	0.3950	0.0147	0.4097	0.1058	0.0140	0.1198	8.3183	658.3622	666.6805	0.5432	3.4600e-003	679.1599

	ROG	NOx	CO	SO2	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	Site Improvements - Clearing & Grubbing	Site Preparation	1/1/2017	1/31/2017	5	22	
2	Rough Grading	Grading	2/1/2017	5/31/2017	5	86	
3	Street Improvements - Phase 1	Building Construction	3/1/2017	5/1/2017	5	44	Streets and walls
4	Building Construction	Building Construction	5/1/2017	3/31/2018	5	240	Models and Production Homes
5	Architectural Coating	Architectural Coating	1/1/2018	3/31/2018	5	65	
6	Street Improvements - Phase 2	Building Construction	3/1/2018	5/30/2018	5	65	Streets and walls
7	Paving	Paving	3/1/2018	3/31/2018	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 116,640; Residential Outdoor: 38,880; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Improvements - Clearing & Grubbing	Air Compressors	1	8.00	81	0.73
Site Improvements - Clearing & Grubbing	Concrete/Industrial Saws	1	8.00	162	0.38
Site Improvements - Clearing & Grubbing	Crawler Tractors	1	8.00	255	0.40
Site Improvements - Clearing & Grubbing	Dumpers/Tenders	2	8.00	97	0.37
Site Improvements - Clearing & Grubbing	Excavators	1	8.00	162	0.38
Site Improvements - Clearing & Grubbing	Generator Sets	1	8.00	84	0.74
Site Improvements - Clearing & Grubbing	Rubber Tired Dozers	1	8.00	255	0.40
Site Improvements - Clearing & Grubbing	Rubber Tired Loaders	1	8.00	199	0.36
Site Improvements - Clearing & Grubbing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rough Grading	Air Compressors	1	8.00	162	0.38
Rough Grading	Concrete/Industrial Saws	1	8.00	174	0.41
Rough Grading	Crawler Tractors	4	8.00	255	0.40
Rough Grading	Dumpers/Tenders	1	8.00	97	0.37
Rough Grading	Excavators	1	8.00	162	0.38
Rough Grading	Graders	1	8.00	174	0.41
Rough Grading	Pumps	1	8.00	84	0.74
Rough Grading	Rubber Tired Dozers	1	8.00	255	0.40
Rough Grading	Rubber Tired Loaders	1	8.00	199	0.36
Rough Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Street Improvements - Phase 1	Air Compressors	1	7.00	226	0.29
Street Improvements - Phase 1	Bore/Drill Rigs	1	8.00	162	0.38
Street Improvements - Phase 1	Cement and Mortar Mixers	1	8.00	89	0.20
Street Improvements - Phase 1	Concrete/Industrial Saws	1	8.00	84	0.74
Street Improvements - Phase 1	Crawler Tractors	2	8.00	174	0.41
Street Improvements - Phase 1	Dumpers/Tenders	1	8.00	255	0.40
Street Improvements - Phase 1	Graders	1	8.00	97	0.37
Street Improvements - Phase 1	Tractors/Loaders/Backhoes	1	8.00	46	0.45
Street Improvements - Phase 1	Trenchers	1	8.00	80	0.50
Building Construction	Air Compressors	2	7.00	226	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	89	0.20
Building Construction	Concrete/Industrial Saws	1	8.00	84	0.74

Building Construction	Cranes	2	7.00	97	0.37
Building Construction	Crawler Tractors	1	8.00	46	0.45
Building Construction	Dumpers/Tenders	7	8.00	16	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Graders	1	8.00	174	0.41
Building Construction	Pressure Washers	1	8.00	13	0.30
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Trenchers	1	8.00	80	0.50
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Street Improvements - Phase 2	Air Compressors	1	7.00	226	0.29
Street Improvements - Phase 2	Bore/Drill Rigs	1	8.00	162	0.38
Street Improvements - Phase 2	Cement and Mortar Mixers	1	8.00	89	0.20
Street Improvements - Phase 2	Concrete/Industrial Saws	1	8.00	84	0.74
Street Improvements - Phase 2	Crawler Tractors	2	8.00	174	0.41
Street Improvements - Phase 2	Dumpers/Tenders	1	8.00	255	0.40
Street Improvements - Phase 2	Graders	1	8.00	97	0.37
Street Improvements - Phase 2	Tractors/Loaders/Backhoes	1	8.00	46	0.45
Street Improvements - Phase 2	Trenchers	1	8.00	80	0.50
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Street Improvements - Phase 1	Cranes	1	7.00	226	0.29
Street Improvements - Phase 2	Cranes	1	7.00	226	0.29
Street Improvements - Phase 1	Forklifts	3	8.00	89	0.20
Street Improvements - Phase 2	Forklifts	3	8.00	89	0.20
Street Improvements - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction	Generator Sets	1	8.00	84	0.74
Street Improvements - Phase 2	Generator Sets	1	8.00	84	0.74
Street Improvements - Phase 1	Welders	1	8.00	46	0.45
Street Improvements - Phase 2	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Improvements - Clearing & Grubbing	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	13	20.00	10.00	1,325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Phase 1	16	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	22	70.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Phase 2	16	10.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Improvements - Clearing & Grubbing - 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					0.0662	0.0000	0.0662	0.0364	0.0000	0.0364	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0521	0.5277	0.3666	5.7000e-004		0.0268	0.0268		0.0254	0.0254	0.0000	51.2198	51.2198	0.0116	0.0000	51.4633
Total	0.0521	0.5277	0.3666	5.7000e-004	0.0662	0.0268	0.0931	0.0364	0.0254	0.0618	0.0000	51.2198	51.2198	0.0116	0.0000	51.4633

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	1.0800e-003	1.5900e-003	0.0165	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.8303	2.8303	1.5000e-004	0.0000	2.8336
Total	1.0800e-003	1.5900e-003	0.0165	4.0000e-005	3.0100e-003	3.0000e-005	3.0400e-003	8.0000e-004	3.0000e-005	8.3000e-004	0.0000	2.8303	2.8303	1.5000e-004	0.0000	2.8336

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					0.0245	0.0000	0.0245	0.0135	0.0000	0.0135	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0166	0.2751	0.3379	5.7000e-004		0.0140	0.0140		0.0140	0.0140	0.0000	51.2197	51.2197	0.0116	0.0000	51.4632
Total	0.0166	0.2751	0.3379	5.7000e-004	0.0245	0.0140	0.0385	0.0135	0.0140	0.0275	0.0000	51.2197	51.2197	0.0116	0.0000	51.4632

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	1.0800e-003	1.5900e-003	0.0165	4.0000e-005	1.8400e-003	3.0000e-005	1.8700e-003	5.1000e-004	3.0000e-005	5.4000e-004	0.0000	2.8303	2.8303	1.5000e-004	0.0000	2.8336
Total	1.0800e-003	1.5900e-003	0.0165	4.0000e-005	1.8400e-003	3.0000e-005	1.8700e-003	5.1000e-004	3.0000e-005	5.4000e-004	0.0000	2.8303	2.8303	1.5000e-004	0.0000	2.8336

Off-Road	0.0861	1.6948	2.1679	3.6800e-003		0.0757	0.0757		0.0757	0.0757	0.0000	335.6423	335.6423	0.0851	0.0000	337.4296
Total	0.0861	1.6948	2.1679	3.6800e-003	0.0968	0.0757	0.1725	0.0529	0.0757	0.1285	0.0000	335.6423	335.6423	0.0851	0.0000	337.4296

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	0.0114	0.1797	0.1429	4.9000e-004	7.4900e-003	2.5100e-003	0.0100	2.1700e-003	2.3100e-003	4.4800e-003	0.0000	44.4586	44.4586	3.3000e-004	0.0000	44.4655
Vendor	3.5200e-003	0.0358	0.0484	9.0000e-005	1.7800e-003	5.3000e-004	2.3000e-003	5.4000e-004	4.8000e-004	1.0200e-003	0.0000	8.4239	8.4239	6.0000e-005	0.0000	8.4251
Worker	3.3600e-003	4.9600e-003	0.0517	1.2000e-004	5.7500e-003	9.0000e-005	5.8400e-003	1.6000e-003	8.0000e-005	1.6800e-003	0.0000	8.8512	8.8512	4.8000e-004	0.0000	8.8613
Total	0.0183	0.2205	0.2429	7.0000e-004	0.0150	3.1300e-003	0.0181	4.3100e-003	2.8700e-003	7.1800e-003	0.0000	61.7337	61.7337	8.7000e-004	0.0000	61.7520

3.4 Street Improvements - Phase 1 - 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	0.1484	1.2807	0.8120	1.2600e-003		0.0807	0.0807		0.0757	0.0757	0.0000	113.1554	113.1554	0.0259	0.0000	113.6987
Total	0.1484	1.2807	0.8120	1.2600e-003		0.0807	0.0807		0.0757	0.0757	0.0000	113.1554	113.1554	0.0259	0.0000	113.6987

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
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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
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	1.2700e-003	0.0132	3.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.2643	2.2643	1.2000e-004	0.0000	2.2669
Total	8.6000e-004	1.2700e-003	0.0132	3.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.2643	2.2643	1.2000e-004	0.0000	2.2669

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	0.0591	0.7590	0.8429	1.2600e-003		0.0455	0.0455		0.0446	0.0446	0.0000	113.1553	113.1553	0.0259	0.0000	113.6985
Total	0.0591	0.7590	0.8429	1.2600e-003		0.0455	0.0455		0.0446	0.0446	0.0000	113.1553	113.1553	0.0259	0.0000	113.6985

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	8.6000e-004	1.2700e-003	0.0132	3.0000e-005	1.4700e-003	2.0000e-005	1.4900e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	2.2643	2.2643	1.2000e-004	0.0000	2.2669
Total	8.6000e-004	1.2700e-003	0.0132	3.0000e-005	1.4700e-003	2.0000e-005	1.4900e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	2.2643	2.2643	1.2000e-004	0.0000	2.2669

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	0.6346	4.7890	3.1276	5.1400e-003		0.3083	0.3083		0.2913	0.2913	0.0000	447.3187	447.3187	0.0832	0.0000	449.0658
Total	0.6346	4.7890	3.1276	5.1400e-003		0.3083	0.3083		0.2913	0.2913	0.0000	447.3187	447.3187	0.0832	0.0000	449.0658

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0729	0.0984	1.9000e-004	5.3700e-003	1.0700e-003	6.4400e-003	1.5300e-003	9.8000e-004	2.5200e-003	0.0000	17.1416	17.1416	1.3000e-004	0.0000	17.1442
Worker	0.0240	0.0354	0.3680	8.5000e-004	0.0671	6.2000e-004	0.0677	0.0178	5.7000e-004	0.0184	0.0000	63.0390	63.0390	3.4400e-003	0.0000	63.1112
Total	0.0311	0.1083	0.4664	1.0400e-003	0.0725	1.6900e-003	0.0742	0.0194	1.5500e-003	0.0209	0.0000	80.1806	80.1806	3.5700e-003	0.0000	80.2553

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	0.2247	2.8008	3.0227	5.1400e-003		0.1786	0.1786		0.1751	0.1751	0.0000	447.3182	447.3182	0.0832	0.0000	449.0653
Total	0.2247	2.8008	3.0227	5.1400e-003		0.1786	0.1786		0.1751	0.1751	0.0000	447.3182	447.3182	0.0832	0.0000	449.0653

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.1700e-003	0.0729	0.0984	1.9000e-004	3.6100e-003	1.0700e-003	4.6800e-003	1.1000e-003	9.8000e-004	2.0900e-003	0.0000	17.1416	17.1416	1.3000e-004	0.0000	17.1442
Worker	0.0240	0.0354	0.3680	8.5000e-004	0.0409	6.2000e-004	0.0416	0.0114	5.7000e-004	0.0120	0.0000	63.0390	63.0390	3.4400e-003	0.0000	63.1112
Total	0.0311	0.1083	0.4664	1.0400e-003	0.0446	1.6900e-003	0.0462	0.0125	1.5500e-003	0.0141	0.0000	80.1806	80.1806	3.5700e-003	0.0000	80.2553

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2121	1.5889	1.1355	1.9100e-003		0.0998	0.0998		0.0944	0.0944	0.0000	164.8859	164.8859	0.0303	0.0000	165.5219
Total	0.2121	1.5889	1.1355	1.9100e-003		0.0998	0.0998		0.0944	0.0944	0.0000	164.8859	164.8859	0.0303	0.0000	165.5219

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	2.5000e-003	0.0249	0.0351	7.0000e-005	1.9900e-003	3.7000e-004	2.3700e-003	5.7000e-004	3.4000e-004	9.1000e-004	0.0000	6.2617	6.2617	5.0000e-005	0.0000	6.2626
Worker	7.9800e-003	0.0119	0.1238	3.2000e-004	0.0249	2.2000e-004	0.0252	6.6200e-003	2.1000e-004	6.8300e-003	0.0000	22.5564	22.5564	1.1900e-003	0.0000	22.5813
Total	0.0105	0.0368	0.1589	3.9000e-004	0.0269	5.9000e-004	0.0275	7.1900e-003	5.5000e-004	7.7400e-003	0.0000	28.8180	28.8180	1.2400e-003	0.0000	28.8439

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	0.0767	1.0014	1.1152	1.9100e-003		0.0627	0.0627		0.0616	0.0616	0.0000	164.8857	164.8857	0.0303	0.0000	165.5217
Total	0.0767	1.0014	1.1152	1.9100e-003		0.0627	0.0627		0.0616	0.0616	0.0000	164.8857	164.8857	0.0303	0.0000	165.5217

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	2.5000e-003	0.0249	0.0351	7.0000e-005	1.3400e-003	3.7000e-004	1.7200e-003	4.1000e-004	3.4000e-004	7.5000e-004	0.0000	6.2617	6.2617	5.0000e-005	0.0000	6.2626
Worker	7.9800e-003	0.0119	0.1238	3.2000e-004	0.0152	2.2000e-004	0.0154	4.2300e-003	2.1000e-004	4.4400e-003	0.0000	22.5564	22.5564	1.1900e-003	0.0000	22.5813
Total	0.0105	0.0368	0.1589	3.9000e-004	0.0166	5.9000e-004	0.0172	4.6400e-003	5.5000e-004	5.1900e-003	0.0000	28.8180	28.8180	1.2400e-003	0.0000	28.8439

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	0.2253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	9.7100e-003	0.0652	0.0603	1.0000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	8.2981	8.2981	7.9000e-004	0.0000	8.3147
Total	0.2350	0.0652	0.0603	1.0000e-004		4.8900e-003	4.8900e-003		4.8900e-003	4.8900e-003	0.0000	8.2981	8.2981	7.9000e-004	0.0000	8.3147

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	9.9600e-003	0.0140	3.0000e-005	8.0000e-004	1.5000e-004	9.5000e-004	2.3000e-004	1.4000e-004	3.7000e-004	0.0000	2.5047	2.5047	2.0000e-005	0.0000	2.5051
Worker	2.2800e-003	3.4100e-003	0.0354	9.0000e-005	7.1200e-003	6.0000e-005	7.1900e-003	1.8900e-003	6.0000e-005	1.9500e-003	0.0000	6.4447	6.4447	3.4000e-004	0.0000	6.4518
Total	3.2800e-003	0.0134	0.0494	1.2000e-004	7.9200e-003	2.1000e-004	8.1400e-003	2.1200e-003	2.0000e-004	2.3200e-003	0.0000	8.9493	8.9493	3.6000e-004	0.0000	8.9568

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	0.2253					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.9300e-003	0.0441	0.0596	1.0000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	8.2981	8.2981	7.9000e-004	0.0000	8.3146

Total	0.2272	0.0441	0.0596	1.0000e-004		3.0900e-003	3.0900e-003		3.0900e-003	3.0900e-003	0.0000	8.2981	8.2981	7.9000e-004	0.0000	8.3146
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.0000e-003	9.9600e-003	0.0140	3.0000e-005	5.4000e-004	1.5000e-004	6.9000e-004	1.6000e-004	1.4000e-004	3.0000e-004	0.0000	2.5047	2.5047	2.0000e-005	0.0000	2.5051
Worker	2.2800e-003	3.4100e-003	0.0354	9.0000e-005	4.3400e-003	6.0000e-005	4.4100e-003	1.2100e-003	6.0000e-005	1.2700e-003	0.0000	6.4447	6.4447	3.4000e-004	0.0000	6.4518
Total	3.2800e-003	0.0134	0.0494	1.2000e-004	4.8800e-003	2.1000e-004	5.1000e-003	1.3700e-003	2.0000e-004	1.5700e-003	0.0000	8.9493	8.9493	3.6000e-004	0.0000	8.9568

3.7 Street Improvements - Phase 2 - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1939	1.6871	1.1677	1.8600e-003		0.1039	0.1039		0.0975	0.0975	0.0000	165.4040	165.4040	0.0377	0.0000	166.1949
Total	0.1939	1.6871	1.1677	1.8600e-003		0.1039	0.1039		0.0975	0.0975	0.0000	165.4040	165.4040	0.0377	0.0000	166.1949

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
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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
Vendor	7.5000e-004	7.4700e-003	0.0105	2.0000e-005	6.0000e-004	1.1000e-004	7.1000e-004	1.7000e-004	1.0000e-004	2.7000e-004	0.0000	1.8785	1.8785	1.0000e-005	0.0000	1.8788
Worker	1.1400e-003	1.7000e-003	0.0177	5.0000e-005	3.5600e-003	3.0000e-005	3.5900e-003	9.5000e-004	3.0000e-005	9.8000e-004	0.0000	3.2223	3.2223	1.7000e-004	0.0000	3.2259
Total	1.8900e-003	9.1700e-003	0.0282	7.0000e-005	4.1600e-003	1.4000e-004	4.3000e-003	1.1200e-003	1.3000e-004	1.2500e-003	0.0000	5.1008	5.1008	1.8000e-004	0.0000	5.1047

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	0.0804	1.0758	1.2361	1.8600e-003		0.0631	0.0631		0.0619	0.0619	0.0000	165.4038	165.4038	0.0377	0.0000	166.1947
Total	0.0804	1.0758	1.2361	1.8600e-003		0.0631	0.0631		0.0619	0.0619	0.0000	165.4038	165.4038	0.0377	0.0000	166.1947

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	7.5000e-004	7.4700e-003	0.0105	2.0000e-005	4.0000e-004	1.1000e-004	5.2000e-004	1.2000e-004	1.0000e-004	2.3000e-004	0.0000	1.8785	1.8785	1.0000e-005	0.0000	1.8788
Worker	1.1400e-003	1.7000e-003	0.0177	5.0000e-005	2.1700e-003	3.0000e-005	2.2000e-003	6.0000e-004	3.0000e-005	6.3000e-004	0.0000	3.2223	3.2223	1.7000e-004	0.0000	3.2259
Total	1.8900e-003	9.1700e-003	0.0282	7.0000e-005	2.5700e-003	1.4000e-004	2.7200e-003	7.2000e-004	1.3000e-004	8.6000e-004	0.0000	5.1008	5.1008	1.8000e-004	0.0000	5.1047

Total	4.7500e-003	0.0985	0.1466	2.1000e-004		5.7000e-003	5.7000e-003		5.7000e-003	5.7000e-003	0.0000	18.4116	18.4116	5.5700e-003	0.0000	18.5287
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Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.4000e-004	3.3700e-003	4.7500e-003	1.0000e-005	1.8000e-004	5.0000e-005	2.3000e-004	6.0000e-005	5.0000e-005	1.0000e-004	0.0000	0.8477	0.8477	1.0000e-005	0.0000	0.8479
Worker	7.7000e-004	1.1500e-003	0.0120	3.0000e-005	1.4700e-003	2.0000e-005	1.4900e-003	4.1000e-004	2.0000e-005	4.3000e-004	0.0000	2.1813	2.1813	1.1000e-004	0.0000	2.1837
Total	1.1100e-003	4.5200e-003	0.0167	4.0000e-005	1.6500e-003	7.0000e-005	1.7200e-003	4.7000e-004	7.0000e-005	5.3000e-004	0.0000	3.0290	3.0290	1.2000e-004	0.0000	3.0315

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	0.1853	0.5939	2.2240	5.9400e-003	0.3950	8.6000e-003	0.4036	0.1058	7.9200e-003	0.1137	0.0000	447.1194	447.1194	0.0175	0.0000	447.4872
Unmitigated	0.1853	0.5939	2.2240	5.9400e-003	0.3950	8.6000e-003	0.4036	0.1058	7.9200e-003	0.1137	0.0000	447.1194	447.1194	0.0175	0.0000	447.4872

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	306.24	322.56	280.64	1,041,938	1,041,938
Total	306.24	322.56	280.64	1,041,938	1,041,938

Single Family Housing	1.01072e+06	5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	53.9358	53.9358	1.0300e-003	9.9000e-004	54.2640
Total		5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	53.9358	53.9358	1.0300e-003	9.9000e-004	54.2640

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	1.01072e+06	5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	53.9358	53.9358	1.0300e-003	9.9000e-004	54.2640
Total		5.4500e-003	0.0466	0.0198	3.0000e-004		3.7700e-003	3.7700e-003		3.7700e-003	3.7700e-003	0.0000	53.9358	53.9358	1.0300e-003	9.9000e-004	54.2640

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	225922	125.8300	2.9700e-003	6.1000e-004	126.0830
Total		125.8300	2.9700e-003	6.1000e-004	126.0830

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	225922	125.8300	2.9700e-003	6.1000e-004	126.0830
Total		125.8300	2.9700e-003	6.1000e-004	126.0830

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814
Unmitigated	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814

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	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2081					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.8000e-004	0.0000	4.0000e-005	0.0000		5.4000e-004	5.4000e-004		5.3000e-004	5.3000e-004	0.0000	7.6844	7.6844	1.5000e-004	1.4000e-004	7.7312
Landscaping	0.0102	3.8600e-003	0.3323	2.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	0.5391	0.5391	5.3000e-004	0.0000	0.5503

Total	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814
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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	0.0225					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2081					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	7.8000e-004	0.0000	4.0000e-005	0.0000		5.4000e-004	5.4000e-004		5.3000e-004	5.3000e-004	0.0000	7.6844	7.6844	1.5000e-004	1.4000e-004	7.7312
Landscaping	0.0102	3.8600e-003	0.3323	2.0000e-005		1.8100e-003	1.8100e-003		1.8100e-003	1.8100e-003	0.0000	0.5391	0.5391	5.3000e-004	0.0000	0.5503
Total	0.2417	3.8600e-003	0.3324	2.0000e-005		2.3500e-003	2.3500e-003		2.3400e-003	2.3400e-003	0.0000	8.2235	8.2235	6.8000e-004	1.4000e-004	8.2814

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	23.9151	0.0685	1.7200e-003	25.8848
Unmitigated	23.9151	0.0685	1.7200e-003	25.8859

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.08493 / 1.31441	23.9151	0.0685	1.7200e-003	25.8859
Total		23.9151	0.0685	1.7200e-003	25.8859

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.08493 / 1.31441	23.9151	0.0685	1.7200e-003	25.8848
Total		23.9151	0.0685	1.7200e-003	25.8848

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	7.6568	0.4525	0.0000	17.1594
Unmitigated	7.6568	0.4525	0.0000	17.1594

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	37.72	7.6568	0.4525	0.0000	17.1594
Total		7.6568	0.4525	0.0000	17.1594

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	37.72	7.6568	0.4525	0.0000	17.1594
Total		7.6568	0.4525	0.0000	17.1594

9.0 Operational Offroad

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

Haverhill
Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	32.00	Dwelling Unit	3.61	57,600.00	92

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	33
Climate Zone	11			Operational Year	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MW hr)	1227.89	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Developer information
- Construction Phase - Developer information and consultant assumptions
- Off-road Equipment -
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment - Developer information
- Off-road Equipment -
- Grading - Developer information
- Trips and VMT - Developer information
- Woodstoves - Consultant assumption

Construction Off-road Equipment Mitigation - Assumes SCAQMD Rule 403

Table Name	Column Name	Default Value	New Value
tblConstDustMitigation	CleanPavedRoadPercentReduction	0	45
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	12.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
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tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
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tblConstructionPhase	NumDays	230.00	44.00
tblConstructionPhase	NumDays	230.00	240.00
tblConstructionPhase	NumDays	230.00	65.00
tblConstructionPhase	NumDays	8.00	86.00
tblConstructionPhase	NumDays	18.00	22.00
tblConstructionPhase	NumDays	5.00	22.00
tblConstructionPhase	PhaseEndDate	6/29/2018	3/31/2018
tblConstructionPhase	PhaseEndDate	8/1/2017	5/1/2017
tblConstructionPhase	PhaseEndDate	4/2/2018	3/31/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	5/30/2018
tblConstructionPhase	PhaseEndDate	6/29/2018	3/31/2018
tblConstructionPhase	PhaseStartDate	4/1/2018	1/1/2018
tblConstructionPhase	PhaseStartDate	6/1/2017	3/1/2017

tblConstructionPhase	PhaseStartDate	5/2/2017	5/1/2017
tblConstructionPhase	PhaseStartDate	4/1/2018	3/1/2018
tblConstructionPhase	PhaseStartDate	5/31/2018	3/1/2018
tblFireplaces	NumberGas	27.20	32.00
tblFireplaces	NumberNoFireplace	3.20	0.00
tblFireplaces	NumberWood	1.60	0.00
tblGrading	AcresOfGrading	215.00	3.16
tblGrading	AcresOfGrading	11.00	0.00
tblGrading	MaterialExported	0.00	13,251.00
tblLandUse	LotAcreage	10.39	3.61
tblOffRoadEquipment	HorsePower	226.00	97.00
tblOffRoadEquipment	HorsePower	97.00	46.00
tblOffRoadEquipment	HorsePower	97.00	46.00
tblOffRoadEquipment	HorsePower	78.00	81.00
tblOffRoadEquipment	HorsePower	78.00	162.00
tblOffRoadEquipment	HorsePower	78.00	226.00
tblOffRoadEquipment	HorsePower	78.00	226.00
tblOffRoadEquipment	HorsePower	78.00	226.00
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tblOffRoadEquipment	HorsePower	9.00	89.00
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tblOffRoadEquipment	HorsePower	208.00	255.00
tblOffRoadEquipment	HorsePower	208.00	174.00

tblOffRoadEquipment	HorsePower	208.00	46.00
tblOffRoadEquipment	HorsePower	208.00	174.00
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tblOffRoadEquipment	LoadFactor	0.56	0.20
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tblOffRoadEquipment	LoadFactor	0.43	0.45
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tblOffRoadEquipment	LoadFactor	0.38	0.37
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tblOffRoadEquipment	LoadFactor	0.38	0.40
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tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblTripsAndVMT	HaulingTripNumber	1,656.00	1,325.00
tblTripsAndVMT	VendorTripNumber	0.00	10.00
tblTripsAndVMT	VendorTripNumber	3.00	0.00
tblTripsAndVMT	VendorTripNumber	3.00	10.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	VendorTripNumber	0.00	4.00
tblTripsAndVMT	WorkerTripNumber	33.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	10.00
tblTripsAndVMT	WorkerTripNumber	12.00	70.00
tblTripsAndVMT	WorkerTripNumber	2.00	20.00
tblTripsAndVMT	WorkerTripNumber	12.00	10.00
tblWoodstoves	NumberCatalytic	1.60	0.00
tblWoodstoves	NumberNoncatalytic	1.60	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	Site Improvements - Clearing & Grubbing	Site Preparation	1/1/2017	1/31/2017	5	22	
2	Rough Grading	Grading	2/1/2017	5/31/2017	5	86	
3	Street Improvements - Phase 1	Building Construction	3/1/2017	5/1/2017	5	44	Streets and walls
4	Building Construction	Building Construction	5/1/2017	3/31/2018	5	240	Models and Production Homes
5	Architectural Coating	Architectural Coating	1/1/2018	3/31/2018	5	65	
6	Street Improvements - Phase 2	Building Construction	3/1/2018	5/30/2018	5	65	Streets and walls
7	Paving	Paving	3/1/2018	3/31/2018	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 116,640; Residential Outdoor: 38,880; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Improvements - Clearing & Grubbing	Air Compressors	1	8.00	81	0.73
Site Improvements - Clearing & Grubbing	Concrete/Industrial Saws	1	8.00	162	0.38
Site Improvements - Clearing & Grubbing	Crawler Tractors	1	8.00	255	0.40
Site Improvements - Clearing & Grubbing	Dumpers/Tenders	2	8.00	97	0.37
Site Improvements - Clearing & Grubbing	Excavators	1	8.00	162	0.38
Site Improvements - Clearing & Grubbing	Generator Sets	1	8.00	84	0.74
Site Improvements - Clearing & Grubbing	Rubber Tired Dozers	1	8.00	255	0.40
Site Improvements - Clearing & Grubbing	Rubber Tired Loaders	1	8.00	199	0.36
Site Improvements - Clearing & Grubbing	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Rough Grading	Air Compressors	1	8.00	162	0.38
Rough Grading	Concrete/Industrial Saws	1	8.00	174	0.41
Rough Grading	Crawler Tractors	4	8.00	255	0.40

Rough Grading	Dumpers/Tenders	1	8.00	97	0.37
Rough Grading	Excavators	1	8.00	162	0.38
Rough Grading	Graders	1	8.00	174	0.41
Rough Grading	Pumps	1	8.00	84	0.74
Rough Grading	Rubber Tired Dozers	1	8.00	255	0.40
Rough Grading	Rubber Tired Loaders	1	8.00	199	0.36
Rough Grading	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Street Improvements - Phase 1	Air Compressors	1	7.00	226	0.29
Street Improvements - Phase 1	Bore/Drill Rigs	1	8.00	162	0.38
Street Improvements - Phase 1	Cement and Mortar Mixers	1	8.00	89	0.20
Street Improvements - Phase 1	Concrete/Industrial Saws	1	8.00	84	0.74
Street Improvements - Phase 1	Crawler Tractors	2	8.00	174	0.41
Street Improvements - Phase 1	Dumpers/Tenders	1	8.00	255	0.40
Street Improvements - Phase 1	Graders	1	8.00	97	0.37
Street Improvements - Phase 1	Tractors/Loaders/Backhoes	1	8.00	46	0.45
Street Improvements - Phase 1	Trenchers	1	8.00	80	0.50
Building Construction	Air Compressors	2	7.00	226	0.29
Building Construction	Cement and Mortar Mixers	1	8.00	89	0.20
Building Construction	Concrete/Industrial Saws	1	8.00	84	0.74
Building Construction	Cranes	2	7.00	97	0.37
Building Construction	Crawler Tractors	1	8.00	46	0.45
Building Construction	Dumpers/Tenders	7	8.00	16	0.38
Building Construction	Forklifts	1	8.00	89	0.20
Building Construction	Graders	1	8.00	174	0.41
Building Construction	Pressure Washers	1	8.00	13	0.30
Building Construction	Rough Terrain Forklifts	1	8.00	100	0.40
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Trenchers	1	8.00	80	0.50
Building Construction	Welders	1	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48
Street Improvements - Phase 2	Air Compressors	1	7.00	226	0.29

Street Improvements - Phase 2	Bore/Drill Rigs	1	8.00	162	0.38
Street Improvements - Phase 2	Cement and Mortar Mixers	1	8.00	89	0.20
Street Improvements - Phase 2	Concrete/Industrial Saws	1	8.00	84	0.74
Street Improvements - Phase 2	Crawler Tractors	2	8.00	174	0.41
Street Improvements - Phase 2	Dumpers/Tenders	1	8.00	255	0.40
Street Improvements - Phase 2	Graders	1	8.00	97	0.37
Street Improvements - Phase 2	Tractors/Loaders/Backhoes	1	8.00	46	0.45
Street Improvements - Phase 2	Trenchers	1	8.00	80	0.50
Paving	Cement and Mortar Mixers	2	6.00	9	0.56
Paving	Pavers	1	8.00	125	0.42
Paving	Paving Equipment	2	6.00	130	0.36
Paving	Rollers	2	6.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Street Improvements - Phase 1	Cranes	1	7.00	226	0.29
Street Improvements - Phase 2	Cranes	1	7.00	226	0.29
Street Improvements - Phase 1	Forklifts	3	8.00	89	0.20
Street Improvements - Phase 2	Forklifts	3	8.00	89	0.20
Street Improvements - Phase 1	Generator Sets	1	8.00	84	0.74
Building Construction	Generator Sets	1	8.00	84	0.74
Street Improvements - Phase 2	Generator Sets	1	8.00	84	0.74
Street Improvements - Phase 1	Welders	1	8.00	46	0.45
Street Improvements - Phase 2	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Site Improvements - Clearing & Grubbing	10	25.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Rough Grading	13	20.00	10.00	1,325.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Street Improvements - Phase 1	16	10.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	22	70.00	10.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

Street Improvements - Phase 2	16	10.00	3.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	8	20.00	4.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Clean Paved Roads

3.2 Site Improvements - Clearing & Grubbing - 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					6.0221	0.0000	6.0221	3.3102	0.0000	3.3102			0.0000			0.0000
Off-Road	4.7314	47.9743	33.3299	0.0516		2.4387	2.4387		2.3112	2.3112		5,132.7378	5,132.7378	1.1621		5,157.1424
Total	4.7314	47.9743	33.3299	0.0516	6.0221	2.4387	8.4608	3.3102	2.3112	5.6214		5,132.7378	5,132.7378	1.1621		5,157.1424

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	0.1001	0.1267	1.5713	3.6300e-003	0.2794	2.5300e-003	0.2820	0.0741	2.3300e-003	0.0764		295.7569	295.7569	0.0155		296.0815
Total	0.1001	0.1267	1.5713	3.6300e-003	0.2794	2.5300e-003	0.2820	0.0741	2.3300e-003	0.0764		295.7569	295.7569	0.0155		296.0815

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					2.2312	0.0000	2.2312	1.2264	0.0000	1.2264			0.0000			0.0000
Off-Road	1.5055	25.0074	30.7191	0.0516		1.2707	1.2707		1.2707	1.2707	0.0000	5,132.7378	5,132.7378	1.1621		5,157.1424
Total	1.5055	25.0074	30.7191	0.0516	2.2312	1.2707	3.5019	1.2264	1.2707	2.4971	0.0000	5,132.7378	5,132.7378	1.1621		5,157.1424

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	0.1001	0.1267	1.5713	3.6300e-003	0.1701	2.5300e-003	0.1727	0.0473	2.3300e-003	0.0496		295.7569	295.7569	0.0155		296.0815
Total	0.1001	0.1267	1.5713	3.6300e-003	0.1701	2.5300e-003	0.1727	0.0473	2.3300e-003	0.0496		295.7569	295.7569	0.0155		296.0815

3.3 Rough 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					6.0785	0.0000	6.0785	3.3171	0.0000	3.3171			0.0000			0.0000
Off-Road	7.6760	84.7352	52.5247	0.0856		3.9190	3.9190		3.6642	3.6642		8,604.2506	8,604.2506	2.1817		8,650.0670
Total	7.6760	84.7352	52.5247	0.0856	6.0785	3.9190	9.9975	3.3171	3.6642	6.9812		8,604.2506	8,604.2506	2.1817		8,650.0670

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	0.2566	3.9669	2.9367	0.0115	0.2684	0.0584	0.3268	0.0735	0.0537	0.1272		1,140.8287	1,140.8287	8.4100e-003		1,141.0053
Vendor	0.0770	0.7978	0.9545	2.2000e-003	0.0624	0.0122	0.0746	0.0178	0.0112	0.0290		216.7039	216.7039	1.5600e-003		216.7368
Worker	0.0801	0.1014	1.2570	2.9100e-003	0.2236	2.0300e-003	0.2256	0.0593	1.8700e-003	0.0612		236.6055	236.6055	0.0124		236.8652
Total	0.4137	4.8660	5.1483	0.0166	0.5543	0.0726	0.6269	0.1505	0.0668	0.2173		1,594.1382	1,594.1382	0.0223		1,594.6073

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					2.2521	0.0000	2.2521	1.2290	0.0000	1.2290			0.0000			0.0000
Off-Road	2.0011	39.4137	50.4155	0.0856		1.7598	1.7598		1.7598	1.7598	0.0000	8,604.2506	8,604.2506	2.1817		8,650.0670
Total	2.0011	39.4137	50.4155	0.0856	2.2521	1.7598	4.0119	1.2290	1.7598	2.9888	0.0000	8,604.2506	8,604.2506	2.1817		8,650.0670

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	0.2566	3.9669	2.9367	0.0115	0.1767	0.0584	0.2351	0.0510	0.0537	0.1047			1,140.8287	1,140.8287		8.4100e-003	1,141.0053
Vendor	0.0770	0.7978	0.9545	2.2000e-003	0.0419	0.0122	0.0541	0.0127	0.0112	0.0239			216.7039	216.7039		1.5600e-003	216.7368
Worker	0.0801	0.1014	1.2570	2.9100e-003	0.1361	2.0300e-003	0.1381	0.0378	1.8700e-003	0.0397			236.6055	236.6055		0.0124	236.8652
Total	0.4137	4.8660	5.1483	0.0166	0.3547	0.0726	0.4273	0.1015	0.0668	0.1683			1,594.1382	1,594.1382		0.0223	1,594.6073

3.4 Street Improvements - Phase 1 - 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	6.7462	58.2150	36.9073	0.0573		3.6666	3.6666		3.4413	3.4413			5,669.6578	5,669.6578	1.2962		5,696.8778
Total	6.7462	58.2150	36.9073	0.0573		3.6666	3.6666		3.4413	3.4413			5,669.6578	5,669.6578	1.2962		5,696.8778

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	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306		118.3028	118.3028	6.1800e-003			118.4326
Total	0.0400	0.0507	0.6285	1.4500e-003	0.1118	1.0100e-003	0.1128	0.0296	9.3000e-004	0.0306		118.3028	118.3028	6.1800e-003			118.4326

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.6869	34.5008	38.3143	0.0573		2.0680	2.0680		2.0249	2.0249	0.0000	5,669.6578	5,669.6578	1.2962			5,696.8778
Total	2.6869	34.5008	38.3143	0.0573		2.0680	2.0680		2.0249	2.0249	0.0000	5,669.6578	5,669.6578	1.2962			5,696.8778

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	0.0400	0.0507	0.6285	1.4500e-003	0.0681	1.0100e-003	0.0691	0.0189	9.3000e-004	0.0198		118.3028	118.3028	6.1800e-003		118.4326
Total	0.0400	0.0507	0.6285	1.4500e-003	0.0681	1.0100e-003	0.0691	0.0189	9.3000e-004	0.0198		118.3028	118.3028	6.1800e-003		118.4326

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	7.2523	54.7315	35.7438	0.0587		3.5232	3.5232		3.3289	3.3289		5,635.2513	5,635.2513	1.0481		5,657.2606
Total	7.2523	54.7315	35.7438	0.0587		3.5232	3.5232		3.3289	3.3289		5,635.2513	5,635.2513	1.0481		5,657.2606

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	0.0770	0.7978	0.9545	2.2000e-003	0.0624	0.0122	0.0746	0.0178	0.0112	0.0290		216.7039	216.7039	1.5600e-003		216.7368
Worker	0.2802	0.3549	4.3996	0.0102	0.7824	7.0900e-003	0.7895	0.2075	6.5400e-003	0.2140		828.1193	828.1193	0.0433		829.0282
Total	0.3572	1.1526	5.3542	0.0124	0.8448	0.0193	0.8641	0.2253	0.0178	0.2430		1,044.8232	1,044.8232	0.0448		1,045.7650

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5679	32.0088	34.5454	0.0587		2.0411	2.0411		2.0007	2.0007	0.0000	5,635.2513	5,635.2513	1.0481		5,657.2606
Total	2.5679	32.0088	34.5454	0.0587		2.0411	2.0411		2.0007	2.0007	0.0000	5,635.2513	5,635.2513	1.0481		5,657.2606

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	0.0770	0.7978	0.9545	2.2000e-003	0.0419	0.0122	0.0541	0.0127	0.0112	0.0239		216.7039	216.7039	1.5600e-003		216.7368
Worker	0.2802	0.3549	4.3996	0.0102	0.4763	7.0900e-003	0.4834	0.1324	6.5400e-003	0.1389		828.1193	828.1193	0.0433		829.0282
Total	0.3572	1.1526	5.3542	0.0124	0.5182	0.0193	0.5375	0.1451	0.0178	0.1628		1,044.8232	1,044.8232	0.0448		1,045.7650

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
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Category	lb/day										lb/day					
Off-Road	6.5263	48.8891	34.9392	0.0587		3.0707	3.0707		2.9030	2.9030		5,592.4783	5,592.4783	1.0273		5,614.0512
Total	6.5263	48.8891	34.9392	0.0587		3.0707	3.0707		2.9030	2.9030		5,592.4783	5,592.4783	1.0273		5,614.0512

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	0.0726	0.7335	0.9118	2.1900e-003	0.0624	0.0115	0.0739	0.0178	0.0106	0.0283		213.1247	213.1247	1.5600e-003		213.1574
Worker	0.2522	0.3221	3.9977	0.0102	0.7824	6.8700e-003	0.7893	0.2075	6.3500e-003	0.2139		797.8151	797.8151	0.0402		798.6593
Total	0.3248	1.0556	4.9095	0.0124	0.8448	0.0184	0.8632	0.2253	0.0169	0.2422		1,010.9397	1,010.9397	0.0418		1,011.8167

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.3602	30.8122	34.3143	0.0587		1.9288	1.9288		1.8943	1.8943	0.0000	5,592.4783	5,592.4783	1.0273		5,614.0512
Total	2.3602	30.8122	34.3143	0.0587		1.9288	1.9288		1.8943	1.8943	0.0000	5,592.4783	5,592.4783	1.0273		5,614.0512

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	0.0726	0.7335	0.9118	2.1900e-003	0.0419	0.0115	0.0534	0.0127	0.0106	0.0233		213.1247	213.1247	1.5600e-003			213.1574
Worker	0.2522	0.3221	3.9977	0.0102	0.4763	6.8700e-003	0.4832	0.1324	6.3500e-003	0.1387		797.8151	797.8151	0.0402			798.6593
Total	0.3248	1.0556	4.9095	0.0124	0.5182	0.0184	0.5366	0.1451	0.0169	0.1620		1,010.9397	1,010.9397	0.0418			1,011.8167

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	6.9311					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	7.2297	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267			282.0102

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
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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	0.0000
Vendor	0.0290	0.2934	0.3647	8.8000e-004	0.0250	4.5900e-003	0.0296	7.1000e-003	4.2200e-003	0.0113	85.2499	85.2499	6.2000e-004	85.2629	
Worker	0.0721	0.0920	1.1422	2.9100e-003	0.2236	1.9600e-003	0.2255	0.0593	1.8100e-003	0.0611	227.9472	227.9472	0.0115	228.1884	
Total	0.1011	0.3854	1.5069	3.7900e-003	0.2485	6.5500e-003	0.2551	0.0664	6.0300e-003	0.0724	313.1970	313.1970	0.0121	313.4513	

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	6.9311					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	6.9905	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

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	0.0290	0.2934	0.3647	8.8000e-004	0.0168	4.5900e-003	0.0213	5.0900e-003	4.2200e-003	9.3100e-003		85.2499	85.2499	6.2000e-004		85.2629
Worker	0.0721	0.0920	1.1422	2.9100e-003	0.1361	1.9600e-003	0.1381	0.0378	1.8100e-003	0.0396		227.9472	227.9472	0.0115		228.1884

Total	0.1011	0.3854	1.5069	3.7900e-003	0.1529	6.5500e-003	0.1594	0.0429	6.0300e-003	0.0489		313.1970	313.1970	0.0121		313.4513
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3.7 Street Improvements - Phase 2 - 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					
Off-Road	5.9649	51.9097	35.9288	0.0573		3.1962	3.1962		3.0001	3.0001		5,610.0526	5,610.0526	1.2774		5,636.8769
Total	5.9649	51.9097	35.9288	0.0573		3.1962	3.1962		3.0001	3.0001		5,610.0526	5,610.0526	1.2774		5,636.8769

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	0.0218	0.2200	0.2735	6.6000e-004	0.0187	3.4400e-003	0.0222	5.3300e-003	3.1700e-003	8.5000e-003		63.9374	63.9374	4.7000e-004		63.9472
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.1118	9.8000e-004	0.1128	0.0296	9.1000e-004	0.0306		113.9736	113.9736	5.7400e-003		114.0942
Total	0.0578	0.2661	0.8447	2.1100e-003	0.1305	4.4200e-003	0.1349	0.0350	4.0800e-003	0.0391		177.9110	177.9110	6.2100e-003		178.0414

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4749	33.1022	38.0345	0.0573		1.9415	1.9415		1.9054	1.9054	0.0000	5,610.0526	5,610.0526	1.2774		5,636.8769
Total	2.4749	33.1022	38.0345	0.0573		1.9415	1.9415		1.9054	1.9054	0.0000	5,610.0526	5,610.0526	1.2774		5,636.8769

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	0.0218	0.2200	0.2735	6.6000e-004	0.0126	3.4400e-003	0.0160	3.8200e-003	3.1700e-003	6.9800e-003		63.9374	63.9374	4.7000e-004		63.9472
Worker	0.0360	0.0460	0.5711	1.4500e-003	0.0681	9.8000e-004	0.0690	0.0189	9.1000e-004	0.0198		113.9736	113.9736	5.7400e-003		114.0942
Total	0.0578	0.2661	0.8447	2.1100e-003	0.0806	4.4200e-003	0.0850	0.0227	4.0800e-003	0.0268		177.9110	177.9110	6.2100e-003		178.0414

3.8 Paving - 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					
Off-Road	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000

Total	1.4060	14.3192	12.2631	0.0187		0.8272	0.8272		0.7628	0.7628		1,845.0348	1,845.0348	0.5587		1,856.7667
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Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0290	0.2934	0.3647	8.8000e-004	0.0250	4.5900e-003	0.0296	7.1000e-003	4.2200e-003	0.0113		85.2499	85.2499	6.2000e-004		85.2629
Worker	0.0721	0.0920	1.1422	2.9100e-003	0.2236	1.9600e-003	0.2255	0.0593	1.8100e-003	0.0611		227.9472	227.9472	0.0115		228.1884
Total	0.1011	0.3854	1.5069	3.7900e-003	0.2485	6.5500e-003	0.2551	0.0664	6.0300e-003	0.0724		313.1970	313.1970	0.0121		313.4513

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	0.4322	8.9586	13.3248	0.0187		0.5183	0.5183		0.5183	0.5183	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.4322	8.9586	13.3248	0.0187		0.5183	0.5183		0.5183	0.5183	0.0000	1,845.0348	1,845.0348	0.5587		1,856.7667

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	0.0290	0.2934	0.3647	8.8000e-004	0.0168	4.5900e-003	0.0213	5.0900e-003	4.2200e-003	9.3100e-003		85.2499	85.2499	6.2000e-004		85.2629
Worker	0.0721	0.0920	1.1422	2.9100e-003	0.1361	1.9600e-003	0.1381	0.0378	1.8100e-003	0.0396		227.9472	227.9472	0.0115		228.1884
Total	0.1011	0.3854	1.5069	3.7900e-003	0.1529	6.5500e-003	0.1594	0.0429	6.0300e-003	0.0489		313.1970	313.1970	0.0121		313.4513

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	1.0836	3.2147	12.8968	0.0358	2.3410	0.0500	2.3910	0.6260	0.0460	0.6720		2,960.6814	2,960.6814	0.1123		2,963.0405
Unmitigated	1.0836	3.2147	12.8968	0.0358	2.3410	0.0500	2.3910	0.6260	0.0460	0.6720		2,960.6814	2,960.6814	0.1123		2,963.0405

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	306.24	322.56	280.64	1,041,938	1,041,938
Total	306.24	322.56	280.64	1,041,938	1,041,938

4.3 Trip Type Information

	Miles	Trip %	Trip Purpose %

Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.531767	0.058060	0.178534	0.124864	0.038964	0.006284	0.016861	0.033134	0.002486	0.003151	0.003685	0.000540	0.001671

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	0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579
NaturalGas Unmitigated	0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2769.09	0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579

Total		0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579
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Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	2.76909	0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579
Total		0.0299	0.2552	0.1086	1.6300e-003		0.0206	0.0206		0.0206	0.0206		325.7753	325.7753	6.2400e-003	5.9700e-003	327.7579

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.4080	0.0309	2.6621	1.4000e-004		0.0574	0.0574		0.0570	0.0570	0.0000	682.4007	682.4007	0.0177	0.0124	686.6237
Unmitigated	1.4080	0.0309	2.6621	1.4000e-004		0.0574	0.0574		0.0570	0.0570	0.0000	682.4007	682.4007	0.0177	0.0124	686.6237

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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0621	0.0000	3.3900e-003	0.0000		0.0429	0.0429		0.0425	0.0425	0.0000	677.6471	677.6471	0.0130	0.0124	681.7711
Landscaping	0.0820	0.0309	2.6587	1.4000e-004		0.0145	0.0145		0.0145	0.0145		4.7537	4.7537	4.7100e-003		4.8526
Total	1.4080	0.0309	2.6621	1.4000e-004		0.0574	0.0574		0.0570	0.0570	0.0000	682.4007	682.4007	0.0177	0.0124	686.6237

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	0.1234					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.1405					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0621	0.0000	3.3900e-003	0.0000		0.0429	0.0429		0.0425	0.0425	0.0000	677.6471	677.6471	0.0130	0.0124	681.7711
Landscaping	0.0820	0.0309	2.6587	1.4000e-004		0.0145	0.0145		0.0145	0.0145		4.7537	4.7537	4.7100e-003		4.8526
Total	1.4080	0.0309	2.6621	1.4000e-004		0.0574	0.0574		0.0570	0.0570	0.0000	682.4007	682.4007	0.0177	0.0124	686.6237

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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