

**LOWE; West Alton Parcel
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	790.00	Space	1.00	316,000.00	0
Other Asphalt Surfaces	460.00	1000sqft	10.56	460,000.00	0
City Park	3.72	Acre	2.32	162,043.20	0
Apartments Low Rise	230.00	Dwelling Unit	4.92	239,572.00	458
Apartments Mid Rise	573.00	Dwelling Unit	13.50	537,157.00	1077

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	473.3	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Updated CO2 IF for 2022
- Land Use - data needs and PD. Pop based on pop/housing section
- Construction Phase - Per updated excel sheet (comments 3/2/16) and 9/21/16
- Off-road Equipment - 2 air compressors
- Off-road Equipment - 2 cranes, 4 forklifts, 4 generator sets, 4 tractors, 2 welders, 1 grader, 1 dozer
- Off-road Equipment - 1 excavator, 2 graders, 2 dozers, 2 scapers, 2 tractors

Off-road Equipment - 2 dozers, 3 tractors

Off-road Equipment - 1 excavator, 3 tractors, 1 paver, 1 roller

Off-road Equipment - 1 paver, 1 roller, 1 excavator, 3 tractors

Trips and VMT - Defaults- Building trips reduced. SP/Grading numbers are calc'ed,

On-road Fugitive Dust - Defaults

Grading - 4,000 cy exported for site prep; 20,000 cy exported from grading (9/21/16)

Architectural Coating - only 25 percent of exteriors will be painted (131,073 sf). No Non-res interior sf to be painted, and painting for lines is estimated at 50,000

Vehicle Trips - defaults for city park. Apartment trip gen from traffic report. 6.18-weekday, 6.715- saturday. 5.692 sunday

Woodstoves - 9 gas fireplaces total

Area Coating - 25% of exteriors (131,073 sf for res ext), res interior= defaults. non-res ext: estimated at 50,000 for painting lines, etc. no non-res interior

Energy Use - Defaults

Water And Wastewater - total indoor water use: 34,310,000

total outdoor water use: 22,408,445

Sequestration -

Construction Off-road Equipment Mitigation - All Tier 3 for Construction equip

Mobile Land Use Mitigation - BMR housing VMT reduction to be calculated manually per SCAQMD

Area Mitigation -

Energy Mitigation - Meeting Title 24 2016 reqs; energy star appliances

Water Mitigation -

Waste Mitigation -

Off-road Equipment - 1 excavator, 2 TLBs, 1 crushing equipment

Demolition - Per data to demo roads

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	469,022.00	50,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,407,065.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	524,292.00	131,073.00
tblAreaCoating	Area_Nonresidential_Exterior	469022	50000
tblAreaCoating	Area_Nonresidential_Interior	1407065	0
tblAreaCoating	Area_Residential_Exterior	524292	131073

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
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	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
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
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	35.00	458.00
tblConstructionPhase	NumDays	500.00	698.00

tblConstructionPhase	NumDays	45.00	107.00
tblConstructionPhase	NumDays	35.00	86.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	30.00	10.00
tblConstructionPhase	PhaseEndDate	10/4/2023	12/31/2021
tblConstructionPhase	PhaseEndDate	3/2/2022	12/31/2021
tblConstructionPhase	PhaseEndDate	5/29/2019	4/30/2019
tblConstructionPhase	PhaseEndDate	8/28/2019	6/28/2019
tblConstructionPhase	PhaseEndDate	1/14/2019	12/31/2018
tblConstructionPhase	PhaseStartDate	1/1/2022	4/1/2020
tblConstructionPhase	PhaseStartDate	6/29/2019	5/1/2019
tblConstructionPhase	PhaseStartDate	1/1/2019	12/1/2018
tblConstructionPhase	PhaseStartDate	5/1/2019	3/1/2019
tblConstructionPhase	PhaseStartDate	10/13/2018	10/1/2018
tblFireplaces	NumberGas	195.50	9.00
tblFireplaces	NumberGas	487.05	0.00
tblFireplaces	NumberNoFireplace	23.00	0.00
tblFireplaces	NumberNoFireplace	57.30	0.00
tblFireplaces	NumberWood	11.50	0.00
tblFireplaces	NumberWood	28.65	0.00
tblGrading	AcresOfGrading	321.00	112.50
tblGrading	MaterialExported	0.00	20,000.00
tblGrading	MaterialExported	0.00	4,000.00
tblLandUse	LandUseSquareFeet	230,000.00	239,572.00
tblLandUse	LandUseSquareFeet	573,000.00	537,157.00
tblLandUse	LotAcreage	7.11	1.00
tblLandUse	LotAcreage	3.72	2.32
tblLandUse	LotAcreage	14.38	4.92
tblLandUse	LotAcreage	15.08	13.50
tblLandUse	Population	658.00	458.00

tblLandUse	Population	1,639.00	1,077.00
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Crushing/Proc. Equipment
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	4.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	0.00	1.00
tblOffRoadEquipment	PhaseName		Underground Infra/Paving
tblOffRoadEquipment	PhaseName		Building
tblOffRoadEquipment	PhaseName		Building
tblOffRoadEquipment	PhaseName		Underground Infra/Paving
tblOffRoadEquipment	PhaseName		Demolition

tblOffRoadEquipment	PhaseName		Demolition
tblProjectCharacteristics	CO2IntensityFactor	630.89	473.3
tblProjectCharacteristics	OperationalYear	2014	2022
tblTripsAndVMT	HaulingTripNumber	1,250.00	2,500.00
tblTripsAndVMT	HaulingTripNumber	0.00	360.00
tblTripsAndVMT	WorkerTripNumber	972.00	400.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblVehicleTrips	ST_TR	7.16	6.71
tblVehicleTrips	ST_TR	7.16	6.71
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	SU_TR	6.07	5.96
tblVehicleTrips	SU_TR	6.07	5.69
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	6.59	6.18
tblVehicleTrips	WD_TR	6.59	6.18
tblVehicleTrips	WD_TR	1.59	0.00
tblWater	IndoorWaterUseRate	14,985,425.89	0.00
tblWater	IndoorWaterUseRate	37,333,256.68	34,310,000.00
tblWater	OutdoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	23,536,183.56	22,408,445.00
tblWater	OutdoorWaterUseRate	4,432,310.62	0.00
tblWoodstoves	NumberCatalytic	11.50	0.00
tblWoodstoves	NumberCatalytic	28.65	0.00
tblWoodstoves	NumberNoncatalytic	11.50	0.00
tblWoodstoves	NumberNoncatalytic	28.65	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					
2018	0.1911	2.0687	1.6092	2.3300e-003	1.1739	0.0992	1.2731	0.5936	0.0914	0.6850			209.0967	0.0493	0.0000	210.1329
2019	1.1844	10.6096	10.6786	0.0203	1.2570	0.5014	1.7584	0.5100	0.4690	0.9790			1,685.4867	0.2490	0.0000	1,690.7150
2020	2.2429	9.5038	12.0673	0.0260	0.9786	0.4421	1.4207	0.2637	0.4186	0.6823			2,036.6040	0.2074	0.0000	2,040.9583
2021	2.5077	8.5824	11.9906	0.0270	1.0439	0.3894	1.4333	0.2810	0.3688	0.6499			2,087.4878	0.2060	0.0000	2,091.8147
Total	6.1262	30.7646	36.3457	0.0756	4.4534	1.4322	5.8855	1.6484	1.3479	2.9963			6,018.6752	0.7117	0.0000	6,033.6209

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										M1/yr					
2018	0.0597	1.0410	1.2320	2.3300e-003	0.5461	0.0451	0.5912	0.2718	0.0446	0.3164			209.0965	0.0493	0.0000	210.1327
2019	0.5452	6.9733	10.3785	0.0203	0.8692	0.3144	1.1836	0.3116	0.3111	0.6227			1,685.4857	0.2490	0.0000	1,690.7139
2020	1.6802	7.1376	12.1024	0.0260	0.9786	0.3377	1.3164	0.2637	0.3341	0.5979			2,036.6030	0.2074	0.0000	2,040.9572
2021	2.0164	6.9007	12.1718	0.0270	1.0439	0.3389	1.3827	0.2810	0.3356	0.6166			2,087.4868	0.2060	0.0000	2,091.8137
Total	4.3015	22.0526	35.8847	0.0756	3.4378	1.0361	4.4738	1.1281	1.0254	2.1535			6,018.6719	0.7117	0.0000	6,033.6175

	ROG	NOx	CO	SO2	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	29.78	28.32	1.27	0.00	22.80	27.66	23.99	31.56	23.93	28.13	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	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083
Energy	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			1,461.5973	0.0728	0.0208	1,469.5683
Mobile	2.1842	5.0181	24.4805	0.0890	6.4258	0.0889	6.5146	1.7173	0.0821	1.7993			6,006.7519	0.2059	0.0000	6,011.0766
Waste						0.0000	0.0000		0.0000	0.0000			75.0458	4.4351	0.0000	168.1824
Water						0.0000	0.0000		0.0000	0.0000			160.2433	1.1271	0.0283	192.6837
Total	8.9145	5.4580	32.9329	0.0916	6.4258	0.1627	6.5885	1.7173	0.1559	1.8732			7,719.3576	5.8541	0.0491	7,857.5193

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	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083
Energy	0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			818.0562	0.0395	0.0118	822.5434
Mobile	2.1842	5.0181	24.4805	0.0890	6.4258	0.0889	6.5146	1.7173	0.0821	1.7993			6,006.7519	0.2059	0.0000	6,011.0766
Waste						0.0000	0.0000		0.0000	0.0000			37.5229	2.2175	0.0000	84.0912
Water						0.0000	0.0000		0.0000	0.0000			133.8942	0.9019	0.0227	159.8624
Total	8.8998	5.3321	32.8793	0.0908	6.4258	0.1525	6.5783	1.7173	0.1457	1.8630			7,011.9446	3.3780	0.0345	7,093.5818

	ROG	NOx	CO	SO2	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	0.17	2.31	0.16	0.88	0.00	6.26	0.15	0.00	6.54	0.54	0.00	0.00	9.16	42.30	29.73	9.72

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	10/1/2018	10/12/2018	5	10	
2	Site Preparation	Site Preparation	10/1/2018	12/31/2018	5	66	
3	Grading	Grading	12/1/2018	4/30/2019	5	107	
4	Underground Infra/Paving	Paving	3/1/2019	6/28/2019	5	86	
5	Building	Building Construction	5/1/2019	12/31/2021	5	698	
6	Architectural Coating	Architectural Coating	4/1/2020	12/31/2021	5	458	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 1,572,876; Residential Outdoor: 131,073; Non-Residential Indoor: 0; Non-Residential Outdoor: 50,000 (Architectural

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	2	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	2	8.00	174	0.41
Grading	Rubber Tired Dozers	2	8.00	255	0.40
Grading	Scrapers	2	8.00	361	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37

Underground Infra/Paving	Excavators	1	8.00	162	0.38
Underground Infra/Paving	Pavers	1	8.00	125	0.42
Underground Infra/Paving	Paving Equipment	0	8.00	130	0.36
Underground Infra/Paving	Rollers	1	8.00	80	0.38
Underground Infra/Paving	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building	Cranes	2	7.00	226	0.29
Building	Forklifts	4	8.00	89	0.20
Building	Generator Sets	4	8.00	84	0.74
Building	Graders	1	8.00	174	0.41
Building	Rubber Tired Dozers	1	6.00	255	0.40
Building	Tractors/Loaders/Backhoes	4	7.00	97	0.37
Building	Welders	2	8.00	46	0.45
Architectural Coating	Air Compressors	2	6.00	78	0.48
Demolition	Excavators	1	8.00	162	0.38
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Crushing/Proc. Equipment	1	8.00	85	0.78

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 Preparation	5	13.00	0.00	500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	9	23.00	0.00	2,500.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Underground Infra/Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building	18	400.00	240.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	2	194.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	7	10.00	0.00	360.00	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

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0385	0.0000	0.0385	5.8300e-003	0.0000	5.8300e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	7.5300e-003	0.0649	0.0622	9.0000e-005		4.2900e-003	4.2900e-003		4.0800e-003	4.0800e-003			8.2682	1.9100e-003	0.0000	8.3083
Total	7.5300e-003	0.0649	0.0622	9.0000e-005	0.0385	4.2900e-003	0.0428	5.8300e-003	4.0800e-003	9.9100e-003			8.2682	1.9100e-003	0.0000	8.3083

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	3.1300e-003	0.0444	0.0375	1.3000e-004	3.0900e-003	6.8000e-004	3.7700e-003	8.5000e-004	6.3000e-004	1.4700e-003			11.6950	9.0000e-005	0.0000	11.6968
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	1.4000e-004	2.1000e-004	2.1900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004			0.4578	2.0000e-005	0.0000	0.4582
Total	3.2700e-003	0.0446	0.0397	1.4000e-004	3.6400e-003	6.8000e-004	4.3200e-003	1.0000e-003	6.3000e-004	1.6200e-003			12.1527	1.1000e-004	0.0000	12.1550

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					0.0173	0.0000	0.0173	2.6200e-003	0.0000	2.6200e-003			0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-003	0.0473	0.0651	9.0000e-005		3.0400e-003	3.0400e-003		3.0200e-003	3.0200e-003			8.2682	1.9100e-003	0.0000	8.3083
Total	2.4000e-003	0.0473	0.0651	9.0000e-005	0.0173	3.0400e-003	0.0204	2.6200e-003	3.0200e-003	5.6400e-003			8.2682	1.9100e-003	0.0000	8.3083

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	3.1300e-003	0.0444	0.0375	1.3000e-004	3.0900e-003	6.8000e-004	3.7700e-003	8.5000e-004	6.3000e-004	1.4700e-003			11.6950	9.0000e-005	0.0000	11.6968
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	1.4000e-004	2.1000e-004	2.1900e-003	1.0000e-005	5.5000e-004	0.0000	5.5000e-004	1.5000e-004	0.0000	1.5000e-004			0.4578	2.0000e-005	0.0000	0.4582
Total	3.2700e-003	0.0446	0.0397	1.4000e-004	3.6400e-003	6.8000e-004	4.3200e-003	1.0000e-003	6.3000e-004	1.6200e-003			12.1527	1.1000e-004	0.0000	12.1550

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.3977	0.0000	0.3977	0.2185	0.0000	0.2185			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0974	1.0323	0.8229	8.9000e-004		0.0541	0.0541		0.0498	0.0498			81.7515	0.0255	0.0000	82.2859
Total	0.0974	1.0323	0.8229	8.9000e-004	0.3977	0.0541	0.4518	0.2185	0.0498	0.2683			81.7515	0.0255	0.0000	82.2859

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3400e-003	0.0617	0.0520	1.8000e-004	4.2900e-003	9.5000e-004	5.2400e-003	1.1800e-003	8.7000e-004	2.0500e-003			16.2430	1.2000e-004	0.0000	16.2455
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	1.2100e-003	1.8000e-003	0.0188	6.0000e-005	4.7100e-003	3.0000e-005	4.7400e-003	1.2500e-003	3.0000e-005	1.2800e-003			3.9277	1.8000e-004	0.0000	3.9315
Total	5.5500e-003	0.0635	0.0709	2.4000e-004	9.0000e-003	9.8000e-004	9.9800e-003	2.4300e-003	9.0000e-004	3.3300e-003			20.1707	3.0000e-004	0.0000	20.1770

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					0.1790	0.0000	0.1790	0.0983	0.0000	0.0983			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0246	0.4605	0.5405	8.9000e-004		0.0234	0.0234		0.0232	0.0232			81.7514	0.0255	0.0000	82.2858
Total	0.0246	0.4605	0.5405	8.9000e-004	0.1790	0.0234	0.2024	0.0983	0.0232	0.1216			81.7514	0.0255	0.0000	82.2858

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.3400e-003	0.0617	0.0520	1.8000e-004	4.2900e-003	9.5000e-004	5.2400e-003	1.1800e-003	8.7000e-004	2.0500e-003			16.2430	1.2000e-004	0.0000	16.2455
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	1.2100e-003	1.8000e-003	0.0188	6.0000e-005	4.7100e-003	3.0000e-005	4.7400e-003	1.2500e-003	3.0000e-005	1.2800e-003			3.9277	1.8000e-004	0.0000	3.9315
Total	5.5500e-003	0.0635	0.0709	2.4000e-004	9.0000e-003	9.8000e-004	9.9800e-003	2.4300e-003	9.0000e-004	3.3300e-003			20.1707	3.0000e-004	0.0000	20.1770

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7052	0.0000	0.7052	0.3608	0.0000	0.3608			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0725	0.8019	0.5521	7.5000e-004		0.0382	0.0382		0.0352	0.0352			68.6032	0.0214	0.0000	69.0517
Total	0.0725	0.8019	0.5521	7.5000e-004	0.7052	0.0382	0.7434	0.3608	0.0352	0.3960			68.6032	0.0214	0.0000	69.0517

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2600e-003	0.0606	0.0511	1.8000e-004	0.0172	9.3000e-004	0.0182	4.3500e-003	8.6000e-004	5.2000e-003			15.9394	1.2000e-004	0.0000	15.9419
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	6.8000e-004	1.0100e-003	0.0106	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004			2.2111	1.0000e-004	0.0000	2.2132
Total	4.9400e-003	0.0616	0.0617	2.1000e-004	0.0199	9.5000e-004	0.0208	5.0500e-003	8.8000e-004	5.9200e-003			18.1505	2.2000e-004	0.0000	18.1550

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					0.3173	0.0000	0.3173	0.1624	0.0000	0.1624			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0190	0.3635	0.4542	7.5000e-004		0.0160	0.0160		0.0159	0.0159			68.6031	0.0214	0.0000	69.0516
Total	0.0190	0.3635	0.4542	7.5000e-004	0.3173	0.0160	0.3333	0.1624	0.0159	0.1783			68.6031	0.0214	0.0000	69.0516

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	4.2600e-003	0.0606	0.0511	1.8000e-004	0.0172	9.3000e-004	0.0182	4.3500e-003	8.6000e-004	5.2000e-003			15.9394	1.2000e-004	0.0000	15.9419
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	6.8000e-004	1.0100e-003	0.0106	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004			2.2111	1.0000e-004	0.0000	2.2132
Total	4.9400e-003	0.0616	0.0617	2.1000e-004	0.0199	9.5000e-004	0.0208	5.0500e-003	8.8000e-004	5.9200e-003			18.1505	2.2000e-004	0.0000	18.1550

3.4 Grading - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.7052	0.0000	0.7052	0.3608	0.0000	0.3608			0.0000	0.0000	0.0000	0.0000
Off-Road	0.2760	3.0128	2.1533	3.0800e-003		0.1421	0.1421		0.1307	0.1307			276.3688	0.0874	0.0000	278.2051
Total	0.2760	3.0128	2.1533	3.0800e-003	0.7052	0.1421	0.8472	0.3608	0.1307	0.4915			276.3688	0.0874	0.0000	278.2051

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	0.0169	0.2334	0.2026	7.4000e-004	0.0204	3.7500e-003	0.0242	5.5100e-003	3.4500e-003	8.9500e-003			64.3550	4.9000e-004	0.0000	64.3654
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	2.6100e-003	3.8400e-003	0.0404	1.3000e-004	0.0109	8.0000e-005	0.0109	2.8800e-003	7.0000e-005	2.9500e-003			8.7723	4.0000e-004	0.0000	8.7806
Total	0.0195	0.2372	0.2430	8.7000e-004	0.0313	3.8300e-003	0.0351	8.3900e-003	3.5200e-003	0.0119			73.1273	8.9000e-004	0.0000	73.1459

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					0.3173	0.0000	0.3173	0.1624	0.0000	0.1624			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0773	1.4850	1.8596	3.0800e-003		0.0650	0.0650		0.0648	0.0648			276.3685	0.0874	0.0000	278.2047
Total	0.0773	1.4850	1.8596	3.0800e-003	0.3173	0.0650	0.3823	0.1624	0.0648	0.2272			276.3685	0.0874	0.0000	278.2047

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	0.0169	0.2334	0.2026	7.4000e-004	0.0204	3.7500e-003	0.0242	5.5100e-003	3.4500e-003	8.9500e-003			64.3550	4.9000e-004	0.0000	64.3654
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	2.6100e-003	3.8400e-003	0.0404	1.3000e-004	0.0109	8.0000e-005	0.0109	2.8800e-003	7.0000e-005	2.9500e-003			8.7723	4.0000e-004	0.0000	8.7806
Total	0.0195	0.2372	0.2430	8.7000e-004	0.0313	3.8300e-003	0.0351	8.3900e-003	3.5200e-003	0.0119			73.1273	8.9000e-004	0.0000	73.1459

3.5 Underground Infra/Paving - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0632	0.6453	0.6429	9.4000e-004		0.0385	0.0385		0.0354	0.0354			84.0241	0.0266	0.0000	84.5823
Paving	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.0770	0.6453	0.6429	9.4000e-004		0.0385	0.0385		0.0354	0.0354			84.0241	0.0266	0.0000	84.5823

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
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	1.7000e-003	2.5100e-003	0.0264	8.0000e-005	7.0800e-003	5.0000e-005	7.1300e-003	1.8800e-003	5.0000e-005	1.9300e-003			5.7210	2.6000e-004	0.0000	5.7265
Total	1.7000e-003	2.5100e-003	0.0264	8.0000e-005	7.0800e-003	5.0000e-005	7.1300e-003	1.8800e-003	5.0000e-005	1.9300e-003			5.7210	2.6000e-004	0.0000	5.7265

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	0.0260	0.4993	0.7067	9.4000e-004		0.0305	0.0305		0.0302	0.0302			84.0240	0.0266	0.0000	84.5822
Paving	0.0138					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Total	0.0398	0.4993	0.7067	9.4000e-004		0.0305	0.0305		0.0302	0.0302			84.0240	0.0266	0.0000	84.5822

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
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	1.7000e-003	2.5100e-003	0.0264	8.0000e-005	7.0800e-003	5.0000e-005	7.1300e-003	1.8800e-003	5.0000e-005	1.9300e-003			5.7210	2.6000e-004	0.0000	5.7265
Total	1.7000e-003	2.5100e-003	0.0264	8.0000e-005	7.0800e-003	5.0000e-005	7.1300e-003	1.8800e-003	5.0000e-005	1.9300e-003			5.7210	2.6000e-004	0.0000	5.7265

3.6 Building - 2019

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.5602	5.1095	4.0485	6.2300e-003		0.2916	0.2916		0.2760	0.2760			543.2450	0.1169	0.0000	545.7000
Total	0.5602	5.1095	4.0485	6.2300e-003		0.2916	0.2916		0.2760	0.2760			543.2450	0.1169	0.0000	545.7000

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
Vendor	0.1576	1.4663	2.1336	4.5300e-003	0.1293	0.0227	0.1520	0.0369	0.0209	0.0578			392.5567	2.8800e-003	0.0000	392.6172
Worker	0.0924	0.1361	1.4310	4.5800e-003	0.3842	2.6600e-003	0.3869	0.1020	2.4700e-003	0.1045			310.4438	0.0140	0.0000	310.7380
Total	0.2501	1.6023	3.5646	9.1100e-003	0.5135	0.0253	0.5389	0.1389	0.0233	0.1623			703.0005	0.0169	0.0000	703.3552

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	0.1568	3.1471	3.9782	6.2300e-003		0.1898	0.1898		0.1892	0.1892			543.2444	0.1169	0.0000	545.6994
Total	0.1568	3.1471	3.9782	6.2300e-003		0.1898	0.1898		0.1892	0.1892			543.2444	0.1169	0.0000	545.6994

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
Vendor	0.1576	1.4663	2.1336	4.5300e-003	0.1293	0.0227	0.1520	0.0369	0.0209	0.0578			392.5567	2.8800e-003	0.0000	392.6172
Worker	0.0924	0.1361	1.4310	4.5800e-003	0.3842	2.6600e-003	0.3869	0.1020	2.4700e-003	0.1045			310.4438	0.0140	0.0000	310.7380
Total	0.2501	1.6023	3.5646	9.1100e-003	0.5135	0.0253	0.5389	0.1389	0.0233	0.1623			703.0005	0.0169	0.0000	703.3552

3.6 Building - 2020

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	0.7599	6.9974	5.9194	9.3200e-003		0.3838	0.3838		0.3631	0.3631			803.0582	0.1720	0.0000	806.6692
Total	0.7599	6.9974	5.9194	9.3200e-003		0.3838	0.3838		0.3631	0.3631			803.0582	0.1720	0.0000	806.6692

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
Vendor	0.2175	1.9152	3.0450	6.7700e-003	0.1936	0.0310	0.2246	0.0553	0.0285	0.0838			574.3732	4.2400e-003	0.0000	574.4622
Worker	0.1309	0.1902	2.0094	6.8600e-003	0.5753	4.0100e-003	0.5793	0.1528	3.7100e-003	0.1565			446.1672	0.0200	0.0000	446.5867
Total	0.3484	2.1054	5.0544	0.0136	0.7688	0.0350	0.8039	0.2080	0.0322	0.2403			1,020.5405	0.0242	0.0000	1,021.0489

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	0.2332	4.6956	5.9543	9.3200e-003		0.2825	0.2825		0.2818	0.2818			803.0572	0.1720	0.0000	806.6683
Total	0.2332	4.6956	5.9543	9.3200e-003		0.2825	0.2825		0.2818	0.2818			803.0572	0.1720	0.0000	806.6683

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
Vendor	0.2175	1.9152	3.0450	6.7700e-003	0.1936	0.0310	0.2246	0.0553	0.0285	0.0838			574.3732	4.2400e-003	0.0000	574.4622
Worker	0.1309	0.1902	2.0094	6.8600e-003	0.5753	4.0100e-003	0.5793	0.1528	3.7100e-003	0.1565			446.1672	0.0200	0.0000	446.5867
Total	0.3484	2.1054	5.0544	0.0136	0.7688	0.0350	0.8039	0.2080	0.0322	0.2403			1,020.5405	0.0242	0.0000	1,021.0489

3.6 Building - 2021

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	0.6805	6.3007	5.7530	9.2900e-003		0.3308	0.3308		0.3129	0.3129			799.9870	0.1689	0.0000	803.5334
Total	0.6805	6.3007	5.7530	9.2900e-003		0.3308	0.3308		0.3129	0.3129			799.9870	0.1689	0.0000	803.5334

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
Vendor	0.2092	1.6189	2.9578	6.7400e-003	0.1929	0.0281	0.2209	0.0551	0.0258	0.0809			571.7016	4.2500e-003	0.0000	571.7908
Worker	0.1240	0.1780	1.8892	6.8400e-003	0.5731	4.0300e-003	0.5771	0.1522	3.7300e-003	0.1559			437.1443	0.0191	0.0000	437.5452
Total	0.3332	1.7968	4.8470	0.0136	0.7659	0.0321	0.7980	0.2072	0.0296	0.2368			1,008.8459	0.0233	0.0000	1,009.3359

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	0.2308	4.6634	5.9303	9.2900e-003		0.2800	0.2800		0.2794	0.2794			799.9861	0.1689	0.0000	803.5324
Total	0.2308	4.6634	5.9303	9.2900e-003		0.2800	0.2800		0.2794	0.2794			799.9861	0.1689	0.0000	803.5324

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
Vendor	0.2092	1.6189	2.9578	6.7400e-003	0.1929	0.0281	0.2209	0.0551	0.0258	0.0809			571.7016	4.2500e-003	0.0000	571.7908
Worker	0.1240	0.1780	1.8892	6.8400e-003	0.5731	4.0300e-003	0.5771	0.1522	3.7300e-003	0.1559			437.1443	0.0191	0.0000	437.5452
Total	0.3332	1.7968	4.8470	0.0136	0.7659	0.0321	0.7980	0.2072	0.0296	0.2368			1,008.8459	0.0233	0.0000	1,009.3359

3.7 Architectural Coating - 2020

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	1.0392					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0477	0.3317	0.3608	5.9000e-004		0.0219	0.0219		0.0219	0.0219			50.2991	3.8900e-003	0.0000	50.3809
Total	1.0869	0.3317	0.3608	5.9000e-004		0.0219	0.0219		0.0219	0.0219			50.2991	3.8900e-003	0.0000	50.3809

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
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	0.0477	0.0694	0.7328	2.5000e-003	0.2098	1.4600e-003	0.2112	0.0557	1.3500e-003	0.0571			162.7063	7.2800e-003	0.0000	162.8593
Total	0.0477	0.0694	0.7328	2.5000e-003	0.2098	1.4600e-003	0.2112	0.0557	1.3500e-003	0.0571			162.7063	7.2800e-003	0.0000	162.8593

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	1.0392					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0117	0.2673	0.3610	5.9000e-004		0.0187	0.0187		0.0187	0.0187			50.2990	3.8900e-003	0.0000	50.3808
Total	1.0509	0.2673	0.3610	5.9000e-004		0.0187	0.0187		0.0187	0.0187			50.2990	3.8900e-003	0.0000	50.3808

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
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	0.0477	0.0694	0.7328	2.5000e-003	0.2098	1.4600e-003	0.2112	0.0557	1.3500e-003	0.0571			162.7063	7.2800e-003	0.0000	162.8593
Total	0.0477	0.0694	0.7328	2.5000e-003	0.2098	1.4600e-003	0.2112	0.0557	1.3500e-003	0.0571			162.7063	7.2800e-003	0.0000	162.8593

3.7 Architectural Coating - 2021

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	1.3768					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0571	0.3985	0.4744	7.8000e-004		0.0246	0.0246		0.0246	0.0246			66.6399	4.5700e-003	0.0000	66.7360
Total	1.4339	0.3985	0.4744	7.8000e-004		0.0246	0.0246		0.0246	0.0246			66.6399	4.5700e-003	0.0000	66.7360

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
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	0.0601	0.0863	0.9163	3.3200e-003	0.2779	1.9500e-003	0.2799	0.0738	1.8100e-003	0.0756			212.0150	9.2600e-003	0.0000	212.2094
Total	0.0601	0.0863	0.9163	3.3200e-003	0.2779	1.9500e-003	0.2799	0.0738	1.8100e-003	0.0756			212.0150	9.2600e-003	0.0000	212.2094

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	1.3768					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Off-Road	0.0155	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248			66.6398	4.5700e-003	0.0000	66.7359
Total	1.3923	0.3542	0.4783	7.8000e-004		0.0248	0.0248		0.0248	0.0248			66.6398	4.5700e-003	0.0000	66.7359

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
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	0.0601	0.0863	0.9163	3.3200e-003	0.2779	1.9500e-003	0.2799	0.0738	1.8100e-003	0.0756			212.0150	9.2600e-003	0.0000	212.2094
Total	0.0601	0.0863	0.9163	3.3200e-003	0.2779	1.9500e-003	0.2799	0.0738	1.8100e-003	0.0756			212.0150	9.2600e-003	0.0000	212.2094

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	2.1842	5.0181	24.4805	0.0890	6.4258	0.0889	6.5146	1.7173	0.0821	1.7993			6,006.7519	0.2059	0.0000	6,011.0766
Unmitigated	2.1842	5.0181	24.4805	0.0890	6.4258	0.0889	6.5146	1.7173	0.0821	1.7993			6,006.7519	0.2059	0.0000	6,011.0766

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,421.40	1,543.30	1370.80	4,891,946	4,891,946
Apartments Mid Rise	3,541.14	3,844.83	3260.37	12,111,802	12,111,802
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	4,962.54	5,388.13	4,631.17	17,003,748	17,003,748

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- NW	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	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
0.505043	0.056653	0.194832	0.151784	0.042126	0.005989	0.016072	0.016505	0.001461	0.002178	0.004464	0.000494	0.002401

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			565.3321	0.0346	7.1700e-003	568.2812
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			1,062.9979	0.0651	0.0135	1,068.5431
NaturalGas Mitigated	0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			252.7242	4.8400e-003	4.6300e-003	254.2622
NaturalGas Unmitigated	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			398.5994	7.6400e-003	7.3100e-003	401.0252

5.2 Energy by Land Use - Natural Gas

Unmitigated

	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					
Apartments Mid Rise	4.93571e+006	0.0266	0.2274	0.0968	1.4500e-003		0.0184	0.0184		0.0184	0.0184			263.3881	5.0500e-003	4.8300e-003	264.9911
City Park	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
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Apartments Low Rise	2.53376e+006	0.0137	0.1168	0.0497	7.5000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003			135.2112	2.5900e-003	2.4800e-003	136.0341
Total		0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			398.5994	7.6400e-003	7.3100e-003	401.0252

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					
City Park	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
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Apartments Low Rise	1.63252e+006	8.8000e-003	0.0752	0.0320	4.8000e-004		6.0800e-003	6.0800e-003		6.0800e-003	6.0800e-003			87.1175	1.6700e-003	1.6000e-003	87.6477
Apartments Mid Rise	3.10335e+006	0.0167	0.1430	0.0609	9.1000e-004		0.0116	0.0116		0.0116	0.0116			165.6067	3.1700e-003	3.0400e-003	166.6145
Total		0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			252.7242	4.8400e-003	4.6400e-003	254.2622

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	828209	177.8043	0.0109	2.2500e-003	178.7319
Apartments Mid Rise	1.99338e+006	427.9483	0.0262	5.4300e-003	430.1807
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.12984e+006	457.2453	0.0280	5.8000e-003	459.6305
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		1,062.9979	0.0651	0.0135	1,068.5431

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	465424	99.9196	6.1200e-003	1.2700e-003	100.4409
Apartments Mid Rise	1.56338e+006	335.6355	0.0206	4.2500e-003	337.3863
City Park	-318510	-68.3794	-0.0042	-0.0009	-68.7361
Enclosed Parking with Elevator	1.24152e+006	266.5358	0.0163	3.3800e-003	267.9262
Other Asphalt Surfaces	-318510	-68.3794	-0.0042	-0.0009	-68.7361
Total		565.3321	0.0346	7.1600e-003	568.2812

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	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083
Unmitigated	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083

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	0.2416					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1963					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	2.2000e-004	0.0000	1.0000e-005	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004			2.1612	4.0000e-005	4.0000e-005	2.1744
Landscaping	0.2519	0.0958	8.3060	4.4000e-004		0.0459	0.0459		0.0459	0.0459			13.5581	0.0131	0.0000	13.8339
Total	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083

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	0.2416					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1963					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	2.2000e-004	0.0000	1.0000e-005	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004			2.1612	4.0000e-005	4.0000e-005	2.1744
Landscaping	0.2519	0.0958	8.3060	4.4000e-004		0.0459	0.0459		0.0459	0.0459			13.5581	0.0131	0.0000	13.8339
Total	6.6900	0.0958	8.3060	4.4000e-004		0.0460	0.0460		0.0460	0.0460			15.7193	0.0132	4.0000e-005	16.0083

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	133.8942	0.9019	0.0227	159.8624
Unmitigated	160.2433	1.1271	0.0283	192.6837

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Apartments Mid Rise	34.31 / 22.4084	160.2433	1.1271	0.0283	192.6837
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		160.2433	1.1271	0.0283	192.6837

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Apartments Mid Rise	27.448 / 20.3164	133.8942	0.9019	0.0227	159.8624
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		133.8942	0.9019	0.0227	159.8624

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.5229	2.2175	0.0000	84.0912
Unmitigated	75.0458	4.4351	0.0000	168.1824

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	105.8	21.4764	1.2692	0.0000	48.1301
Apartments Mid Rise	263.58	53.5044	3.1620	0.0000	119.9067
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1456
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		75.0458	4.4351	0.0000	168.1824

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	52.9	10.7382	0.6346	0.0000	24.0651
Apartments Mid Rise	131.79	26.7522	1.5810	0.0000	59.9534
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0728
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		37.5229	2.2175	0.0000	84.0912

9.0 Operational Offroad

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

10.0 Vegetation

**LOWE; West Alton Parcel
Orange County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	790.00	Space	1.00	316,000.00	0
Other Asphalt Surfaces	460.00	1000sqft	10.56	460,000.00	0
City Park	3.72	Acre	2.32	162,043.20	0
Apartments Low Rise	230.00	Dwelling Unit	4.92	239,572.00	458
Apartments Mid Rise	573.00	Dwelling Unit	13.50	537,157.00	1077

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	30
Climate Zone	8			Operational Year	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	372.1	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Updated CO2 IF to 372.1 for 2030

Land Use - data needs and PD. Pop based on pop/housing section

Trips and VMT - Defaults- Building trips reduced. SP/Grading numbers are calc'ed,

On-road Fugitive Dust - Defaults

Architectural Coating - only 25 percent of exteriors will be painted (131,073 sf). No Non-res interior sf to be painted, and painting for lines is estimated at 50,000

Vehicle Trips - defaults for city park. Apartment trip gen from traffic report. 6.18-weekday, 6.715- saturday. 5.692 sunday

Woodstoves - 9 gas fireplaces total

Area Coating - 25% of exteriors (131,073 sf for res ext), res interior= defaults. non-res ext: estimated at 50,000 for painting lines, etc. no non-res interior

Energy Use - Defaults

Water And Wastewater - total indoor water use: 34,310,000

total outdoor water use: 22,408,445

Sequestration -

Mobile Land Use Mitigation - BMR housing VMT reduction to be calculated manually per SCAQMD

Area Mitigation -

Energy Mitigation - Meeting Title 24 2016 reqs; energy star appliances; onsite renewable, 1,592,550 kwh generated

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	469,022.00	50,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,407,065.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Exterior	524,292.00	131,073.00
tblAreaCoating	Area_Nonresidential_Interior	1407065	0
tblAreaCoating	Area_Residential_Exterior	524292	131073
tblFireplaces	NumberGas	195.50	9.00
tblFireplaces	NumberGas	487.05	0.00
tblFireplaces	NumberNoFireplace	23.00	0.00
tblFireplaces	NumberNoFireplace	57.30	0.00
tblFireplaces	NumberWood	11.50	0.00
tblFireplaces	NumberWood	28.65	0.00
tblLandUse	LandUseSquareFeet	230,000.00	239,572.00
tblLandUse	LandUseSquareFeet	573,000.00	537,157.00
tblLandUse	LotAcreage	7.11	1.00
tblLandUse	LotAcreage	3.72	2.32
tblLandUse	LotAcreage	14.38	4.92

tblLandUse	LotAcreage	15.08	13.50
tblLandUse	Population	658.00	458.00
tblLandUse	Population	1,639.00	1,077.00
tblProjectCharacteristics	CO2IntensityFactor	630.89	372.1
tblProjectCharacteristics	OperationalYear	2014	2030
tblTripsAndVMT	HaulingTripNumber	356.00	360.00
tblTripsAndVMT	WorkerTripNumber	18.00	10.00
tblTripsAndVMT	WorkerTripNumber	972.00	400.00
tblVehicleTrips	ST_TR	7.16	6.71
tblVehicleTrips	ST_TR	7.16	6.71
tblVehicleTrips	ST_TR	1.59	0.00
tblVehicleTrips	SU_TR	6.07	5.96
tblVehicleTrips	SU_TR	6.07	5.69
tblVehicleTrips	SU_TR	1.59	0.00
tblVehicleTrips	WD_TR	6.59	6.18
tblVehicleTrips	WD_TR	6.59	6.18
tblVehicleTrips	WD_TR	1.59	0.00
tblWater	IndoorWaterUseRate	14,985,425.89	0.00
tblWater	IndoorWaterUseRate	37,333,256.68	34,310,000.00
tblWater	OutdoorWaterUseRate	9,447,333.72	0.00
tblWater	OutdoorWaterUseRate	23,536,183.56	22,408,445.00
tblWater	OutdoorWaterUseRate	4,432,310.62	0.00
tblWoodstoves	NumberCatalytic	11.50	0.00
tblWoodstoves	NumberCatalytic	28.65	0.00
tblWoodstoves	NumberNoncatalytic	11.50	0.00
tblWoodstoves	NumberNoncatalytic	28.65	0.00

2.0 Emissions Summary

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	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048
Energy	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			1,234.3093	0.0728	0.0208	1,242.2804
Mobile	1.7624	3.8143	19.4155	0.0900	6.4305	0.0951	6.5256	1.7190	0.0879	1.8069			5,748.5250	0.1690	0.0000	5,752.0740
Waste						0.0000	0.0000		0.0000	0.0000			75.0458	4.4351	0.0000	168.1824
Water						0.0000	0.0000		0.0000	0.0000			128.3078	1.1271	0.0283	160.7482
Total	8.7321	4.2539	27.8370	0.0927	6.4305	0.1691	6.5996	1.7190	0.1618	1.8809			7,201.9072	5.8170	0.0491	7,339.2898

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	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048
Energy	0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			697.1781	0.0395	0.0118	701.6653
Mobile	1.7624	3.8143	19.4155	0.0900	6.4305	0.0951	6.5256	1.7190	0.0879	1.8069			5,748.5250	0.1690	0.0000	5,752.0740
Waste						0.0000	0.0000		0.0000	0.0000			37.5229	2.2175	0.0000	84.0912
Water						0.0000	0.0000		0.0000	0.0000			107.1272	0.9019	0.0227	133.0953
Total	8.7173	4.1279	27.7834	0.0919	6.4305	0.1589	6.5894	1.7190	0.1517	1.8707			6,606.0724	3.3409	0.0345	6,686.9306

	ROG	NOx	CO	SO2	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	0.17	2.96	0.19	0.87	0.00	6.03	0.15	0.00	6.30	0.54	0.00	0.00	8.27	42.57	29.73	8.89

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.7624	3.8143	19.4155	0.0900	6.4305	0.0951	6.5256	1.7190	0.0879	1.8069			5,748.5250	0.1690	0.0000	5,752.0740
Unmitigated	1.7624	3.8143	19.4155	0.0900	6.4305	0.0951	6.5256	1.7190	0.0879	1.8069			5,748.5250	0.1690	0.0000	5,752.0740

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	1,421.40	1,543.30	1370.80	4,891,946	4,891,946
Apartments Mid Rise	3,541.14	3,844.83	3260.37	12,111,802	12,111,802
City Park	0.00	0.00	0.00		
Enclosed Parking with Elevator	0.00	0.00	0.00		
Other Asphalt Surfaces	0.00	0.00	0.00		
Total	4,962.54	5,388.13	4,631.17	17,003,748	17,003,748

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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6
Enclosed Parking with Elevator	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Other Asphalt Surfaces	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
0.492231	0.057714	0.199426	0.154905	0.042875	0.006205	0.016809	0.019001	0.001507	0.002240	0.003750	0.000476	0.002861

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000			444.4540	0.0346	7.1700e-003	447.4031
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000			835.7100	0.0651	0.0135	841.2552
NaturalGas Mitigated	0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			252.7242	4.8400e-003	4.6300e-003	254.2622
NaturalGas Unmitigated	0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			398.5994	7.6400e-003	7.3100e-003	401.0252

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					
Apartments Mid Rise	4.93571e+006	0.0266	0.2274	0.0968	1.4500e-003		0.0184	0.0184		0.0184	0.0184			263.3881	5.0500e-003	4.8300e-003	264.9911
City Park	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
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Apartments Low Rise	2.53376e+006	0.0137	0.1168	0.0497	7.5000e-004		9.4400e-003	9.4400e-003		9.4400e-003	9.4400e-003			135.2112	2.5900e-003	2.4800e-003	136.0341
Total		0.0403	0.3442	0.1465	2.2000e-003		0.0278	0.0278		0.0278	0.0278			398.5994	7.6400e-003	7.3100e-003	401.0252

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					
City Park	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
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
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Apartments Low Rise	1.63252e+006	8.8000e-003	0.0752	0.0320	4.8000e-004		6.0800e-003	6.0800e-003		6.0800e-003	6.0800e-003			87.1175	1.6700e-003	1.6000e-003	87.6477
Apartments Mid Rise	3.10335e+006	0.0167	0.1430	0.0609	9.1000e-004		0.0116	0.0116		0.0116	0.0116			165.6067	3.1700e-003	3.0400e-003	166.6145
Total		0.0255	0.2182	0.0929	1.3900e-003		0.0176	0.0176		0.0176	0.0176			252.7242	4.8400e-003	4.6400e-003	254.2622

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	828209	139.7866	0.0109	2.2500e-003	140.7141
Apartments Mid Rise	1.99338e+006	336.4453	0.0262	5.4300e-003	338.6777
City Park	0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	2.12984e+006	359.4781	0.0280	5.8000e-003	361.8633
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		835.7100	0.0651	0.0135	841.2552

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	465424	78.5550	6.1200e-003	1.2700e-003	79.0763
Apartments Mid Rise	1.56338e+006	263.8706	0.0206	4.2500e-003	265.6215
City Park	-318510	-53.7587	-0.0042	-0.0009	-54.1154
Enclosed Parking with Elevator	1.24152e+006	209.5457	0.0163	3.3800e-003	210.9361
Other Asphalt Surfaces	-318510	-53.7587	-0.0042	-0.0009	-54.1154
Total		444.4540	0.0346	7.1600e-003	447.4031

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	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048
Unmitigated	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048

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	0.4844					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1963					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	2.2000e-004	0.0000	1.0000e-005	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004			2.1612	4.0000e-005	4.0000e-005	2.1744
Landscaping	0.2485	0.0954	8.2751	4.4000e-004		0.0460	0.0460		0.0460	0.0460			13.5581	0.0130	0.0000	13.8304
Total	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048

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	0.4844					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Consumer Products	6.1963					0.0000	0.0000		0.0000	0.0000			0.0000	0.0000	0.0000	0.0000
Hearth	2.2000e-004	0.0000	1.0000e-005	0.0000		1.5000e-004	1.5000e-004		1.5000e-004	1.5000e-004			2.1612	4.0000e-005	4.0000e-005	2.1744
Landscaping	0.2485	0.0954	8.2751	4.4000e-004		0.0460	0.0460		0.0460	0.0460			13.5581	0.0130	0.0000	13.8304
Total	6.9294	0.0954	8.2751	4.4000e-004		0.0461	0.0461		0.0461	0.0461			15.7193	0.0130	4.0000e-005	16.0048

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	107.1272	0.9019	0.0227	133.0953
Unmitigated	128.3078	1.1271	0.0283	160.7482

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Apartments Mid Rise	34.31 / 22.4084	128.3078	1.1271	0.0283	160.7482
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		128.3078	1.1271	0.0283	160.7482

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0 / 0	0.0000	0.0000	0.0000	0.0000
Apartments Mid Rise	27.448 / 20.3164	107.1272	0.9019	0.0227	133.0953
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		107.1272	0.9019	0.0227	133.0953

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	37.5229	2.2175	0.0000	84.0912
Unmitigated	75.0458	4.4351	0.0000	168.1824

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	105.8	21.4764	1.2692	0.0000	48.1301
Apartments Mid Rise	263.58	53.5044	3.1620	0.0000	119.9067
City Park	0.32	0.0650	3.8400e-003	0.0000	0.1456
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		75.0458	4.4351	0.0000	168.1824

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	52.9	10.7382	0.6346	0.0000	24.0651
Apartments Mid Rise	131.79	26.7522	1.5810	0.0000	59.9534
City Park	0.16	0.0325	1.9200e-003	0.0000	0.0728
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Other Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		37.5229	2.2175	0.0000	84.0912

9.0 Operational Offroad

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

10.0 Vegetation
