

Aliso Creek
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	11.80	Acre	11.80	514,008.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	31
Climate Zone	9			Operational Year	2019
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 -

Construction Phase - Total days based on designers estimated days to complete each phase

Off-road Equipment - Other Construction - Core Drill; Dozer only 1 on-site;

Off-road Equipment - Dumper - 6 per designer; Backhoe - 3 per designer

Off-road Equipment - Air compressor 1 per designer, Trencher 2 per designer, Loader 3 per designer, Pump 1 per designer, Dumper 3 per designer, Roller

Grading -

Trips and VMT - Work Trips - per designer

Road Dust -

Area Coating - No architectural coatings proposed - per designer

Water And Wastewater - No on-site irrigation system proposed. Water is naturally treated on site.

Solid Waste - Hydrodynamic separator proposed on upstream side of project.

Land Use Change -

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstructionPhase	NumDays	300.00	360.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	NumDays	10.00	60.00
tblConstructionPhase	PhaseStartDate	7/15/2017	7/16/2017
tblGrading	MaterialExported	0.00	62,050.00
tblGrading	MaterialImported	0.00	26,350.00
tblOffRoadEquipment	HorsePower	87.00	162.00
tblOffRoadEquipment	HorsePower	78.00	89.00
tblOffRoadEquipment	HorsePower	80.00	84.00
tblOffRoadEquipment	HorsePower	16.00	255.00
tblOffRoadEquipment	HorsePower	84.00	46.00
tblOffRoadEquipment	LoadFactor	0.34	0.38
tblOffRoadEquipment	LoadFactor	0.48	0.20
tblOffRoadEquipment	LoadFactor	0.50	0.74
tblOffRoadEquipment	LoadFactor	0.38	0.40
tblOffRoadEquipment	LoadFactor	0.74	0.45
tblOffRoadEquipment	OffRoadEquipmentType	Excavators	Other General Industrial Equipment
tblOffRoadEquipment	OffRoadEquipmentType	Forklifts	Air Compressors
tblOffRoadEquipment	OffRoadEquipmentType	Generator Sets	Trenchers
tblOffRoadEquipment	OffRoadEquipmentType	Rubber Tired Dozers	Dumpers/Tenders
tblOffRoadEquipment	OffRoadEquipmentType	Welders	Pumps
tblOffRoadEquipment	OffRoadEquipmentType		Dumpers/Tenders

tblOffRoadEquipment	OffRoadEquipmentType		Rollers
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	3.00
tblProjectCharacteristics	OperationalYear	2014	2019
tblSolidWaste	SolidWasteGenerationRate	1.01	0.13
tblTripsAndVMT	WorkerTripNumber	15.00	8.00
tblTripsAndVMT	WorkerTripNumber	30.00	20.00
tblTripsAndVMT	WorkerTripNumber	216.00	20.00
tblWater	AerobicPercent	87.46	0.00
tblWater	AnaDigestCombDigestGasPercent	100.00	0.00
tblWater	AnaerobicandFacultativeLagoonsPercent	2.21	0.00
tblWater	ElectricityIntensityFactorForWastewaterTreatment	1,911.00	0.00
tblWater	ElectricityIntensityFactorToDistribute	1,272.00	0.00
tblWater	ElectricityIntensityFactorToSupply	9,727.00	0.00
tblWater	ElectricityIntensityFactorToTreat	111.00	0.00
tblWater	OutdoorWaterUseRate	14,059,479.93	0.00
tblWater	SepticTankPercent	10.33	100.00

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	0.6662	6.5988	5.1330	9.6400e-003	0.6929	0.3307	1.0236	0.3389	0.3077	0.6466	0.0000	862.5804	862.5804	0.1062	0.0000	864.8111
2018	0.7313	6.2311	5.1920	8.4400e-003	0.0884	0.3809	0.4692	0.0247	0.3564	0.3811	0.0000	736.3486	736.3486	0.1341	0.0000	739.1640

Total	1.3975	12.8299	10.3249	0.0181	0.7813	0.7115	1.4928	0.3636	0.6641	1.0277	0.0000	1,598.9290	1,598.9290	0.2403	0.0000	1,603.9751
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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	0.6662	6.5988	5.1330	9.6400e-003	0.3921	0.3307	0.7228	0.1746	0.3077	0.4823	0.0000	862.5799	862.5799	0.1062	0.0000	864.8106
2018	0.7313	6.2311	5.1920	8.4400e-003	0.0884	0.3809	0.4692	0.0247	0.3564	0.3811	0.0000	736.3480	736.3480	0.1341	0.0000	739.1634
Total	1.3975	12.8299	10.3249	0.0181	0.4805	0.7115	1.1920	0.1993	0.6641	0.8634	0.0000	1,598.9279	1,598.9279	0.2403	0.0000	1,603.9740

	ROG	NOx	CO	SO2	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	38.51	0.00	20.15	45.18	0.00	15.99	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	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	9.7900e-003	0.0285	0.1086	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0000	21.9106	21.9106	8.0000e-004	0.0000	21.9274
Waste						0.0000	0.0000		0.0000	0.0000	0.0254	0.0000	0.0254	1.5000e-003	0.0000	0.0569

Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8672	0.0285	0.1088	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0254	21.9108	21.9362	2.3000e-003	0.0000	21.9846

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	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	9.7900e-003	0.0285	0.1086	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0000	21.9106	21.9106	8.0000e-004	0.0000	21.9274
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.8672	0.0285	0.1088	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0000	21.9108	21.9108	8.0000e-004	0.0000	21.9277

	ROG	NOx	CO	SO2	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	100.00	0.00	0.12	65.22	0.00	0.26

2.3 Vegetation

Vegetation

	CO2e
Category	MT

Vegetation Land Change	0.0000
Total	0.0000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	4/10/2017	4/21/2017	5	10	
2	Site Preparation	Site Preparation	4/22/2017	7/14/2017	5	60	
3	Building Construction	Building Construction	7/16/2017	11/30/2018	5	360	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; 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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Other General Industrial Equipment	1	8.00	162	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Site Preparation	Dumpers/Tenders	6	8.00	255	0.40
Site Preparation	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	226	0.29
Building Construction	Air Compressors	1	8.00	89	0.20
Building Construction	Trenchers	2	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Pumps	1	8.00	46	0.45

Building Construction	Dumpers/Tenders	3	8.00	16	0.38
Building Construction	Rollers	2	8.00	80	0.38
Demolition	Excavators	3	8.00	162	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Site Preparation	Rubber Tired Dozers	3	8.00	255	0.40
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	8.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	12	20.00	0.00	11,050.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	18	20.00	84.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 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	0.0167	0.1721	0.1382	1.8000e-004		8.9200e-003	8.9200e-003		8.3300e-003	8.3300e-003	0.0000	16.6342	16.6342	4.5100e-003	0.0000	16.7289
Total	0.0167	0.1721	0.1382	1.8000e-004		8.9200e-003	8.9200e-003		8.3300e-003	8.3300e-003	0.0000	16.6342	16.6342	4.5100e-003	0.0000	16.7289

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	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958
Total	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958

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	0.0167	0.1721	0.1382	1.8000e-004		8.9200e-003	8.9200e-003		8.3300e-003	8.3300e-003	0.0000	16.6342	16.6342	4.5100e-003	0.0000	16.7289
Total	0.0167	0.1721	0.1382	1.8000e-004		8.9200e-003	8.9200e-003		8.3300e-003	8.3300e-003	0.0000	16.6342	16.6342	4.5100e-003	0.0000	16.7289

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	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958
Total	1.4000e-004	2.1000e-004	2.2100e-003	1.0000e-005	4.4000e-004	0.0000	4.4000e-004	1.2000e-004	0.0000	1.2000e-004	0.0000	0.3954	0.3954	2.0000e-005	0.0000	0.3958

3.3 Site Preparation - 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					0.5470	0.0000	0.5470	0.2987	0.0000	0.2987	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1356	1.4613	1.1101	1.0800e-003		0.0758	0.0758		0.0697	0.0697	0.0000	100.2844	100.2844	0.0307	0.0000	100.9297
Total	0.1356	1.4613	1.1101	1.0800e-003	0.5470	0.0758	0.6228	0.2987	0.0697	0.3684	0.0000	100.2844	100.2844	0.0307	0.0000	100.9297

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	0.0927	1.4630	1.1632	4.0700e-003	0.0947	0.0220	0.1167	0.0260	0.0202	0.0462	0.0000	366.0014	366.0014	2.6100e-003	0.0000	366.0561

Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1600e-003	3.2000e-003	0.0332	8.0000e-005	6.5800e-003	5.0000e-005	6.6400e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.9305	5.9305	3.1000e-004	0.0000	5.9369
Total	0.0948	1.4662	1.1964	4.1500e-003	0.1013	0.0220	0.1234	0.0277	0.0203	0.0480	0.0000	371.9318	371.9318	2.9200e-003	0.0000	371.9930

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					0.2461	0.0000	0.2461	0.1344	0.0000	0.1344	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1356	1.4613	1.1101	1.0800e-003		0.0758	0.0758		0.0697	0.0697	0.0000	100.2843	100.2843	0.0307	0.0000	100.9296
Total	0.1356	1.4613	1.1101	1.0800e-003	0.2461	0.0758	0.3219	0.1344	0.0697	0.2041	0.0000	100.2843	100.2843	0.0307	0.0000	100.9296

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	0.0927	1.4630	1.1632	4.0700e-003	0.0947	0.0220	0.1167	0.0260	0.0202	0.0462	0.0000	366.0014	366.0014	2.6100e-003	0.0000	366.0561
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1600e-003	3.2000e-003	0.0332	8.0000e-005	6.5800e-003	5.0000e-005	6.6400e-003	1.7500e-003	5.0000e-005	1.8000e-003	0.0000	5.9305	5.9305	3.1000e-004	0.0000	5.9369
Total	0.0948	1.4662	1.1964	4.1500e-003	0.1013	0.0220	0.1234	0.0277	0.0203	0.0480	0.0000	371.9318	371.9318	2.9200e-003	0.0000	371.9930

3.4 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	0.3737	3.0787	2.0638	2.9700e-003		0.2174	0.2174		0.2034	0.2034	0.0000	263.7471	263.7471	0.0667	0.0000	265.1488
Total	0.3737	3.0787	2.0638	2.9700e-003		0.2174	0.2174		0.2034	0.2034	0.0000	263.7471	263.7471	0.0667	0.0000	265.1488

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	0.0409	0.4138	0.5558	1.0900e-003	0.0310	6.4200e-003	0.0374	8.8500e-003	5.9000e-003	0.0148	0.0000	97.7265	97.7265	7.0000e-004	0.0000	97.7411
Worker	4.3200e-003	6.4000e-003	0.0664	1.6000e-004	0.0132	1.1000e-004	0.0133	3.5000e-003	1.0000e-004	3.6000e-003	0.0000	11.8609	11.8609	6.1000e-004	0.0000	11.8738
Total	0.0452	0.4202	0.6222	1.2500e-003	0.0442	6.5300e-003	0.0507	0.0124	6.0000e-003	0.0184	0.0000	109.5874	109.5874	1.3100e-003	0.0000	109.6149

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
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Category	tons/yr										MT/yr					
	Off-Road	0.3737	3.0787	2.0638	2.9700e-003		0.2174	0.2174		0.2034	0.2034	0.0000	263.7468	263.7468	0.0667	0.0000
Total	0.3737	3.0787	2.0638	2.9700e-003		0.2174	0.2174		0.2034	0.2034	0.0000	263.7468	263.7468	0.0667	0.0000	265.1484

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	0.0409	0.4138	0.5558	1.0900e-003	0.0310	6.4200e-003	0.0374	8.8500e-003	5.9000e-003	0.0148	0.0000	97.7265	97.7265	7.0000e-004	0.0000	97.7411
Worker	4.3200e-003	6.4000e-003	0.0664	1.6000e-004	0.0132	1.1000e-004	0.0133	3.5000e-003	1.0000e-004	3.6000e-003	0.0000	11.8609	11.8609	6.1000e-004	0.0000	11.8738
Total	0.0452	0.4202	0.6222	1.2500e-003	0.0442	6.5300e-003	0.0507	0.0124	6.0000e-003	0.0184	0.0000	109.5874	109.5874	1.3100e-003	0.0000	109.6149

3.4 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	0.6471	5.4604	4.0067	5.9400e-003		0.3686	0.3686		0.3451	0.3451	0.0000	521.3404	521.3404	0.1316	0.0000	524.1029
Total	0.6471	5.4604	4.0067	5.9400e-003		0.3686	0.3686		0.3451	0.3451	0.0000	521.3404	521.3404	0.1316	0.0000	524.1029

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	0.0765	0.7592	1.0650	2.1800e-003	0.0620	0.0121	0.0741	0.0177	0.0111	0.0288	0.0000	192.1717	192.1717	1.3800e-003	0.0000	192.2008
Worker	7.7600e-003	0.0116	0.1203	3.2000e-004	0.0263	2.1000e-004	0.0265	6.9900e-003	1.9000e-004	7.1900e-003	0.0000	22.8364	22.8364	1.1400e-003	0.0000	22.8603
Total	0.0842	0.7708	1.1853	2.5000e-003	0.0884	0.0123	0.1007	0.0247	0.0113	0.0360	0.0000	215.0081	215.0081	2.5200e-003	0.0000	215.0611

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	0.6471	5.4604	4.0067	5.9400e-003		0.3686	0.3686		0.3451	0.3451	0.0000	521.3398	521.3398	0.1316	0.0000	524.1023
Total	0.6471	5.4604	4.0067	5.9400e-003		0.3686	0.3686		0.3451	0.3451	0.0000	521.3398	521.3398	0.1316	0.0000	524.1023

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	0.0765	0.7592	1.0650	2.1800e-003	0.0620	0.0121	0.0741	0.0177	0.0111	0.0288	0.0000	192.1717	192.1717	1.3800e-003	0.0000	192.2008
Worker	7.7600e-003	0.0116	0.1203	3.2000e-004	0.0263	2.1000e-004	0.0265	6.9900e-003	1.9000e-004	7.1900e-003	0.0000	22.8364	22.8364	1.1400e-003	0.0000	22.8603
Total	0.0842	0.7708	1.1853	2.5000e-003	0.0884	0.0123	0.1007	0.0247	0.0113	0.0360	0.0000	215.0081	215.0081	2.5200e-003	0.0000	215.0611

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	9.7900e-003	0.0285	0.1086	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0000	21.9106	21.9106	8.0000e-004	0.0000	21.9274
Unmitigated	9.7900e-003	0.0285	0.1086	3.0000e-004	0.0205	4.3000e-004	0.0209	5.4800e-003	3.9000e-004	5.8700e-003	0.0000	21.9106	21.9106	8.0000e-004	0.0000	21.9274

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	18.76	18.76	18.76	53,988	53,988
Total	18.76	18.76	18.76	53,988	53,988

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
City Park	16.60	8.40	6.90	33.00	48.00	19.00	66	28	6

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.510142	0.059804	0.180842	0.139058	0.042603	0.006701	0.016107	0.033206	0.001939	0.002487	0.004384	0.000580	0.002146

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install High Efficiency Lighting

Category	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

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					
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	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000

Total		0.0000	0.0000	0.0000	0.0000
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Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Unmitigated	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Total	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004

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	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.8574					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-005	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004
Total	1.8574	0.0000	1.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.9000e-004	2.9000e-004	0.0000	0.0000	3.1000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0254	1.5000e-003	0.0000	0.0569

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0.125	0.0254	1.5000e-003	0.0000	0.0569
Total		0.0254	1.5000e-003	0.0000	0.0569

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

9.0 Operational Offroad

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

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	0.0000	0.0000	0.0000	0.0000

10.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
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	Acres	MT			
Wetlands	0 / 5.1	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000