

**APPENDIX D-1
CALEEMOD MODELING RESULTS
EXISTING THEME PARK**

Great America Master Plan Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
City Park	112.00	Acre	112.00	4,878,720.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2018
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	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 - This is model of the operations of existing conditions of the theme park. Construction dates do not apply to this model.

Vehicle Trips - Adjusted based on number of daily trips the existing conditions generate

Energy Use - intensity rates are based on energy output provided by applicant

Mobile Land Use Mitigation -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	250.00
tblArchitecturalCoating	EF_Residential_Exterior	150.00	250.00
tblArchitecturalCoating	EF_Residential_Interior	100.00	250.00

tblConstructionPhase	NumDays	220.00	18.00
tblConstructionPhase	NumDays	3,100.00	230.00
tblConstructionPhase	NumDays	200.00	20.00
tblConstructionPhase	NumDays	310.00	8.00
tblConstructionPhase	NumDays	220.00	18.00
tblConstructionPhase	NumDays	120.00	5.00
tblEnergyUse	NT24E	0.00	0.31
tblEnergyUse	T24NG	0.00	2.21
tblGrading	AcresOfGrading	20.00	775.00
tblProjectCharacteristics	OperationalYear	2014	2018
tblVehicleTrips	ST_TR	1.59	40.80
tblVehicleTrips	SU_TR	1.59	40.80
tblVehicleTrips	WD_TR	1.59	40.80

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	2.1495	13.0412	24.5740	0.0499	3.1865	0.3772	3.5637	0.8144	0.3511	1.1654	0.0000	4,066.8163	4,066.8163	0.1929	0.0000	4,070.8676
2018	56.5853	0.3337	0.5954	1.2800e-003	0.0706	0.0140	0.0845	0.0189	0.0130	0.0319	0.0000	100.4857	100.4857	9.4700e-003	0.0000	100.6847
Total	58.7348	13.3749	25.1694	0.0512	3.2571	0.3911	3.6482	0.8333	0.3641	1.1974	0.0000	4,167.3020	4,167.3020	0.2024	0.0000	4,171.5522

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	2.1495	13.0412	24.5740	0.0499	3.1865	0.3772	3.5637	0.8144	0.3511	1.1654	0.0000	4,066.8159	4,066.8159	0.1929	0.0000	4,070.8672
2018	56.5853	0.3337	0.5954	1.2800e-003	0.0706	0.0140	0.0845	0.0189	0.0130	0.0319	0.0000	100.4857	100.4857	9.4700e-003	0.0000	100.6846
Total	58.7348	13.3749	25.1694	0.0512	3.2571	0.3911	3.6482	0.8333	0.3641	1.1974	0.0000	4,167.3016	4,167.3016	0.2024	0.0000	4,171.5518

	ROG	NOx	CO	SO2	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

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	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003
Energy	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	1,019.8128	1,019.8128	0.0311	0.0147	1,025.0236
Mobile	2.3515	4.8580	22.4802	0.0503	3.6206	0.0649	3.6856	0.9680	0.0598	1.0278	0.0000	3,729.8854	3,729.8854	0.1475	0.0000	3,732.9831
Waste						0.0000	0.0000		0.0000	0.0000	1.9548	0.0000	1.9548	0.1155	0.0000	4.3808
Water						0.0000	0.0000		0.0000	0.0000	0.0000	135.8733	135.8733	6.1400e-003	1.2700e-003	136.3964
Total	24.0074	5.3858	22.9246	0.0535	3.6206	0.1050	3.7257	0.9680	0.1000	1.0679	1.9548	4,885.5735	4,887.5283	0.3003	0.0160	4,898.7860

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	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003
Energy	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	1,019.8128	1,019.8128	0.0311	0.0147	1,025.0236
Mobile	2.3515	4.8580	22.4802	0.0503	3.6206	0.0649	3.6856	0.9680	0.0598	1.0278	0.0000	3,729.8854	3,729.8854	0.1475	0.0000	3,732.9831
Waste						0.0000	0.0000		0.0000	0.0000	1.9548	0.0000	1.9548	0.1155	0.0000	4.3808
Water						0.0000	0.0000		0.0000	0.0000	0.0000	135.8733	135.8733	6.1400e-003	1.2700e-003	136.3964
Total	24.0074	5.3858	22.9246	0.0535	3.6206	0.1050	3.7257	0.9680	0.1000	1.0679	1.9548	4,885.5735	4,887.5283	0.3003	0.0160	4,898.7860

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2017	1/27/2017	5	20	
2	Site Preparation	Site Preparation	1/28/2017	2/3/2017	5	5	
3	Grading	Grading	2/4/2017	2/15/2017	5	8	
4	Building Construction	Building Construction	2/16/2017	1/3/2018	5	230	
5	Paving	Paving	1/4/2018	1/29/2018	5	18	
6	Architectural Coating	Architectural Coating	1/30/2018	2/22/2018	5	18	

Worker	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586
Total	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291
Total	0.0405	0.4270	0.3389	4.0000e-004		0.0213	0.0213		0.0198	0.0198	0.0000	36.6182	36.6182	0.0101	0.0000	36.8291

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586
Total	5.0000e-004	7.0000e-004	6.8200e-003	2.0000e-005	1.3700e-003	1.0000e-005	1.3800e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.1574	1.1574	6.0000e-005	0.0000	1.1586

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004	6.8900e-003	6.8900e-003	6.8900e-003	6.3300e-003	6.3300e-003	6.3300e-003	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-004	0.0452	6.8900e-003	0.0521	0.0248	6.3300e-003	0.0312	0.0000	9.0789	9.0789	2.7800e-003	0.0000	9.1373

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	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476
Total	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476

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					0.0452	0.0000	0.0452	0.0248	0.0000	0.0248	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0121	0.1294	0.0985	1.0000e-004		6.8900e-003	6.8900e-003		6.3300e-003	6.3300e-003	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373
Total	0.0121	0.1294	0.0985	1.0000e-004	0.0452	6.8900e-003	0.0521	0.0248	6.3300e-003	0.0312	0.0000	9.0788	9.0788	2.7800e-003	0.0000	9.1373

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	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476
Total	1.5000e-004	2.1000e-004	2.0400e-003	0.0000	4.1000e-004	0.0000	4.1000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3472	0.3472	2.0000e-005	0.0000	0.3476

3.4 Grading - 2017

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.4350	0.0000	0.4350	0.0576	0.0000	0.0576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.2784	0.1872	2.5000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	22.9096	22.9096	7.0200e-003	0.0000	23.0570
Total	0.0244	0.2784	0.1872	2.5000e-004	0.4350	0.0133	0.4483	0.0576	0.0122	0.0698	0.0000	22.9096	22.9096	7.0200e-003	0.0000	23.0570

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	2.7000e-004	3.8000e-004	3.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6173	0.6173	3.0000e-005	0.0000	0.6179
Total	2.7000e-004	3.8000e-004	3.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6173	0.6173	3.0000e-005	0.0000	0.6179

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					0.4350	0.0000	0.4350	0.0576	0.0000	0.0576	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.2784	0.1872	2.5000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	22.9095	22.9095	7.0200e-003	0.0000	23.0570
Total	0.0244	0.2784	0.1872	2.5000e-004	0.4350	0.0133	0.4483	0.0576	0.0122	0.0698	0.0000	22.9095	22.9095	7.0200e-003	0.0000	23.0570

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
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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	2.7000e-004	3.8000e-004	3.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6173	0.6173	3.0000e-005	0.0000	0.6179
Total	2.7000e-004	3.8000e-004	3.6300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6173	0.6173	3.0000e-005	0.0000	0.6179

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	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136
Total	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8088	271.8088	0.0669	0.0000	273.2136

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	0.9444	8.1173	11.3122	0.0216	0.5864	0.1174	0.7038	0.1682	0.1080	0.2761	0.0000	1,929.9131	1,929.9131	0.0150	0.0000	1,930.2275
Worker	0.7750	1.0909	10.5670	0.0245	2.1174	0.0162	2.1336	0.5631	0.0149	0.5780	0.0000	1,794.3660	1,794.3660	0.0911	0.0000	1,796.2790

Total	1.7195	9.2082	21.8792	0.0461	2.7038	0.1336	2.8374	0.7313	0.1229	0.8541	0.0000	3,724.2791	3,724.2791	0.1061	0.0000	3,726.5065
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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	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133
Total	0.3521	2.9970	2.0577	3.0400e-003		0.2022	0.2022		0.1899	0.1899	0.0000	271.8085	271.8085	0.0669	0.0000	273.2133

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	0.9444	8.1173	11.3122	0.0216	0.5864	0.1174	0.7038	0.1682	0.1080	0.2761	0.0000	1,929.9131	1,929.9131	0.0150	0.0000	1,930.2275
Worker	0.7750	1.0909	10.5670	0.0245	2.1174	0.0162	2.1336	0.5631	0.0149	0.5780	0.0000	1,794.3660	1,794.3660	0.0911	0.0000	1,796.2790
Total	1.7195	9.2082	21.8792	0.0461	2.7038	0.1336	2.8374	0.7313	0.1229	0.8541	0.0000	3,724.2791	3,724.2791	0.1061	0.0000	3,726.5065

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	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5516	3.5516	8.7000e-004	0.0000	3.5698
Total	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5516	3.5516	8.7000e-004	0.0000	3.5698

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.0971	0.1408	2.8000e-004	7.7500e-003	1.4400e-003	9.1900e-003	2.2200e-003	1.3200e-003	3.5400e-003	0.0000	25.0597	25.0597	1.9000e-004	0.0000	25.0638
Worker	9.2000e-003	0.0130	0.1253	3.2000e-004	0.0280	2.1000e-004	0.0282	7.4400e-003	1.9000e-004	7.6300e-003	0.0000	22.8311	22.8311	1.1100e-003	0.0000	22.8544
Total	0.0205	0.1101	0.2661	6.0000e-004	0.0357	1.6500e-003	0.0374	9.6600e-003	1.5100e-003	0.0112	0.0000	47.8908	47.8908	1.3000e-003	0.0000	47.9182

Mitigated Construction On-Site

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

Off-Road	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5515	3.5515	8.7000e-004	0.0000	3.5698
Total	4.0000e-003	0.0349	0.0263	4.0000e-005		2.2400e-003	2.2400e-003		2.1100e-003	2.1100e-003	0.0000	3.5515	3.5515	8.7000e-004	0.0000	3.5698

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0113	0.0971	0.1408	2.8000e-004	7.7500e-003	1.4400e-003	9.1900e-003	2.2200e-003	1.3200e-003	3.5400e-003	0.0000	25.0597	25.0597	1.9000e-004	0.0000	25.0638
Worker	9.2000e-003	0.0130	0.1253	3.2000e-004	0.0280	2.1000e-004	0.0282	7.4400e-003	1.9000e-004	7.6300e-003	0.0000	22.8311	22.8311	1.1100e-003	0.0000	22.8544
Total	0.0205	0.1101	0.2661	6.0000e-004	0.0357	1.6500e-003	0.0374	9.6600e-003	1.5100e-003	0.0112	0.0000	47.8908	47.8908	1.3000e-003	0.0000	47.9182

3.6 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	tons/yr										MT/yr					
Off-Road	0.0145	0.1545	0.1305	2.0000e-004		8.4500e-003	8.4500e-003		7.7700e-003	7.7700e-003	0.0000	18.3319	18.3319	5.7100e-003	0.0000	18.4517
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.1545	0.1305	2.0000e-004		8.4500e-003	8.4500e-003		7.7700e-003	7.7700e-003	0.0000	18.3319	18.3319	5.7100e-003	0.0000	18.4517

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	4.0000e-004	5.7000e-004	5.5000e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0028	1.0028	5.0000e-005	0.0000	1.0039
Total	4.0000e-004	5.7000e-004	5.5000e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0028	1.0028	5.0000e-005	0.0000	1.0039

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	0.0145	0.1545	0.1305	2.0000e-004		8.4500e-003	8.4500e-003		7.7700e-003	7.7700e-003	0.0000	18.3319	18.3319	5.7100e-003	0.0000	18.4517
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0145	0.1545	0.1305	2.0000e-004		8.4500e-003	8.4500e-003		7.7700e-003	7.7700e-003	0.0000	18.3319	18.3319	5.7100e-003	0.0000	18.4517

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
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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	4.0000e-004	5.7000e-004	5.5000e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0028	1.0028	5.0000e-005	0.0000	1.0039
Total	4.0000e-004	5.7000e-004	5.5000e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0028	1.0028	5.0000e-005	0.0000	1.0039

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

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					
Archit. Coating	56.5322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	56.5349	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025

Unmitigated Construction Off-Site

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					
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	0.0110	0.0156	0.1504	3.9000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	27.4107	27.4107	1.3300e-003	0.0000	27.4386

Total	0.0110	0.0156	0.1504	3.9000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	27.4107	27.4107	1.3300e-003	0.0000	27.4386
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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	56.5322					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.6900e-003	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025
Total	56.5349	0.0181	0.0167	3.0000e-005		1.3500e-003	1.3500e-003		1.3500e-003	1.3500e-003	0.0000	2.2979	2.2979	2.2000e-004	0.0000	2.3025

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	0.0110	0.0156	0.1504	3.9000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	27.4107	27.4107	1.3300e-003	0.0000	27.4386
Total	0.0110	0.0156	0.1504	3.9000e-004	0.0336	2.5000e-004	0.0338	8.9300e-003	2.3000e-004	9.1600e-003	0.0000	27.4107	27.4107	1.3300e-003	0.0000	27.4386

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	2.3515	4.8580	22.4802	0.0503	3.6206	0.0649	3.6856	0.9680	0.0598	1.0278	0.0000	3,729.8854	3,729.8854	0.1475	0.0000	3,732.9831
Unmitigated	2.3515	4.8580	22.4802	0.0503	3.6206	0.0649	3.6856	0.9680	0.0598	1.0278	0.0000	3,729.8854	3,729.8854	0.1475	0.0000	3,732.9831

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
City Park	4,569.60	4,569.60	4569.60	9,755,423	9,755,423
Total	4,569.60	4,569.60	4,569.60	9,755,423	9,755,423

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-	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
City Park	9.50	7.30	7.30	33.00	48.00	19.00	66	28	6

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.551461	0.058468	0.185554	0.123211	0.029507	0.004440	0.012712	0.023230	0.001775	0.001270	0.006089	0.000516	0.001766

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	445.2268	445.2268	0.0201	4.1700e-003	446.9407
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	445.2268	445.2268	0.0201	4.1700e-003	446.9407
NaturalGas Mitigated	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828
NaturalGas Unmitigated	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828

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					
City Park	1.07673e+007	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828
Total		0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828

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
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Land Use	kBTU/yr	tons/yr									MT/yr						
City Park	1.07673e+007	0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828
Total		0.0581	0.5278	0.4434	3.1700e-003		0.0401	0.0401		0.0401	0.0401	0.0000	574.5860	574.5860	0.0110	0.0105	578.0828

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	1.53045e+006	445.2268	0.0201	4.1700e-003	446.9407
Total		445.2268	0.0201	4.1700e-003	446.9407

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
City Park	1.53045e+006	445.2268	0.0201	4.1700e-003	446.9407
Total		445.2268	0.0201	4.1700e-003	446.9407

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	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003
Unmitigated	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003

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	2.5440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003
Total	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003

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	2.5440					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	19.0538					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.0000e-004	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003
Total	21.5979	1.0000e-005	1.0400e-003	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-003	2.0000e-003	1.0000e-005	0.0000	2.1200e-003

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	135.8733	6.1400e-003	1.2700e-003	136.3964
Unmitigated	135.8733	6.1400e-003	1.2700e-003	136.3964

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 133.446	135.8733	6.1400e-003	1.2700e-003	136.3964

Total		135.8733	6.1400e-003	1.2700e-003	136.3964
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Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
City Park	0 / 133.446	135.8733	6.1400e-003	1.2700e-003	136.3964
Total		135.8733	6.1400e-003	1.2700e-003	136.3964

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	1.9548	0.1155	0.0000	4.3808
Unmitigated	1.9548	0.1155	0.0000	4.3808

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	9.63	1.9548	0.1155	0.0000	4.3808
Total		1.9548	0.1155	0.0000	4.3808

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
City Park	9.63	1.9548	0.1155	0.0000	4.3808
Total		1.9548	0.1155	0.0000	4.3808

9.0 Operational Offroad

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